JAMES THORNLEY

Henley on Thames, RG93HB| 07776122578 | james@thornley.info | Linked In

MOBILE PROGRAMMER, ANDROID AND IOS

JAVA | SWIFT | OBJECTIVE-C
INNOVATIVE PROBLEM SOLVING FOR 30 YEARS

CAREER SUMMARY – When I joined Price Waterhouse as a graduate IT consultant, it was the best paid and highly sought after job, for all disciplines. After getting top marks in the tests and my personality shining through in the interviews, I was picked out of all the top graduate applicants. After 2 years programming at PWC, I was graded A++, one of only 3 out of 300 to be given that grade.

They drummed into us that maintainable code was everything, 80% of the cost of software is in the maintenance. We were taught to write clean, well structured, fully tested code. We unit tested everything, even back in the 1990s. They taught us to write test scripts and documentation and also accurate and useful program specifications.

So, I have a natural ability and an easy going yet communicative personality, I was taught and trained well and now I have 30 years experience and the learning never stops, I thrive on the continuing advances in the programming world.

I have worked in large teams like in Goldman Sachs Front Office, and small teams like my current role where I am the only developer and product owner for ios and Android; dealing with customers, the business and the CEO. I am a quick starter, e.g. at Goldmans I rewrote and released a batch job in my first week. I always become one of the main programmers and enjoy instructing, learning and discussing problems and solutions in any team.

RECOMMENDATIONS : (CAN BE VERIFIED ON LINKEDIN)

✓ **Chris Williams, Programmer at Pendragon Fund Management**
"Working with somebody who clearly knows what they're doing, is able to communicate openly and honestly and writes good, readable code is something to be appreciated and I would have no hesitiation, either in choosing to work with James again or in offering my personal recommendation of his services."

✓ **Karthik Ramamurphy, BA at Goldman Sachs, Currently MD at Standard Chartered**
"James consistently demonstrated unparalleled coding skills, problem-solving prowess, and outstanding thought leadership. His IT expertise and business acumen always impressed me, and his unwavering dedication to tackling challenges and supporting our team was truly remarkable."

✓ **Please see LinkedIn for further recommendations**

EXPERIENCE

MOBILE PROGRAMMING		OTHER MOBILE SKILLS		SERVER SKILLS	
Java	– 24 years	SQL	– 30 years	HTML/CSS/JavaScript	– 24 years
Android	– 15 years	Agile Methodologies	– 20 years	Unix	– 30 years
iOS	– 15 years	Git/Source Control	– 25 years	C/C++	– 15 years
Objective-C	– 15 years	WebApi/REST	– 15 years	J2EE	– 20 years
Swift	– 8 years	Unit/UI Testing	– 30 years	Perl/Bash scripting	– 25 years

Teamhaven Ltd – Contract (Remote) | Android Developer and iOS Developer | May 2011 – Present

Teamhaven provides field marketing tools to help agencies and brands promote and track their products. It's a complex app pushing boundaries due to the volume and complexity of data, balancing between memory and performance using threads and locking. The full scope can be viewed here - teamhavenwork.pdf, or there's a video here - Teamhaven video

I joined Teamhaven when it was a startup and wrote the iOS and Android apps. Since then I've worked to increase the offerings of Teamhaven, along with changes needed for the constantly changing OS. Projects such as barcode reading, biometrics, notifications, multiple languages and rewriting the L&F to the designs of a graphic designer.

There are 10,000 Android users and 8,000 iOS users, this is a B2C app with a B2B layer. The end users use the app daily to do their job, which has given huge insight into mobile development as not only is the app used heavily but all issues are reported. I am the only programmer, so have done all the amendments and fixes and written extra apps for Teamhaven clients. I have worked closely with the rest of the team especially the server programmer and the Marketing manager but also talk to members of the public. We operate an Agile methodology with fast regular releases and feedback.

The Android app is in Java and the iOS was originally written in Objective-C but converted to Swift. Sqlite is the offline storage on both apps and is encrypted along with all communication. Both apps have full UI and Unit automated testing, all code is saved using git and work done in branches. All work on this project has been completed from home.

- **Wrote both Apps (Android and iOS) from scratch**, modelled on a Windows app they had to receive the data using Rest Apis , store it on sqlite database and create online defined, dynamic screens.
- **Supported business and end users**, I have dealt with user issues, new requirements and performance, whilst consistently kept the apps performing well as the central part of TeamHaven's offering.
- **Built extra apps** to help TeamHaven's clients interact with the server.
- **Converted Objective-C to Swift,** whilst simplifying and reducing the code base. Converted Storyboard/UIKit MVC style architecture to SwiftUI MVVM architecture.
- **Adapted all new OS features** (when needed), for example recently converted sync process on ios to use Concurrency (Async/Await) which reduced code from 3500 lines to 1400.
- **Collaborated with other team members,** including business, graphic designers, clients and server programmers.
- **Helped Recruit my replacement,** interviewed candidates, currently training and pair programming.

www.thornley.info – Self Employed (Remote)|Java, Android and iOS developer| June 2006 – Mar 2011

I worked on, and delivered on over 12 projects as a freelance programmer working from home. I completed entire projects and maintained existing ones often picking up projects where the developer had left. This included startups, individuals,small and large companies.

The applications were varied and I was responsible for some of them from start to finish. I gathered requirements, designed systems, designed databases, coded, tested, implemented and provided support.
The jobs are detailed on my website, but here is a summary of some relevant ones.

- **Audio Trails** - Audiotrails provide interactive walks using GPS, sound, interactive mapping and augmented reality. I wrote Android and iOS Apps, which can be seen in the app store. There are over 10 apps in total which cover walks, cycle routes, places of interest, and a GPS based boat trip.
- **Exposure** - Exposure are a large Graphical Design Company. I wrote Blackberry applications for their clients, Playstation and Symantec. This involved writing Java according to their very graphical designs and downloading content from the internet.
- **Pipa** – A startup who were creating a fingerprint pin system. I gathered requirements, wrote specifications, database design and UML Diagrams for a team of offshore programmers. I managed the team throughout the project. This involved code reviews, advising coding strategies and clear effective communication.

Goldman Sachs – Contract | Analyst Programmer | Aug 2003 – June 2006

I worked in the Market Risk department in my second stint at Goldmans. We produced the Value at Risk for the entire bank. The team was spread across NY, London and Tokyo. Feeds taken from across the bank include Equities, Bonds, Commodities, FX and all manner of derivatives of these products.

There was a large mix of technologies used due to the way the department had grown over the previous ten years. Java/J2EE being used for the user interfaces. C++, perl, shell scripting, and an inhouse technology called Slang performing the reading of data and calculations. At the backend was a Sybase server, and Business Objects was used by the users to query the data. Junit was used for testing. All releases were through a CICD pipeline and source control was through git.

I was lead programmer and mentor for the team, taking new graduates and less experienced programmers under my wing. We used Agile/Devops working practices, with JUnit automated testing and continuous integration and delivery.
- **Reduced runtime of one batchjob from 4-6 hours to 4 minutes** by rewriting the code in C++ and SQL
- **Reduced the entire batchrun by 75%** by rewriting a job that ran for every department in the bank (C++/SQL)
- **Rewrote Position Editor App** – turned it from slow cumbersome app that crashed, to a sleek java SWT app.

HUTCHINSONS /THREE MOBILE TELECOMMS - CONTRACT | Analyst Programmer | Sep 2002 – Aug 2003

At Three I worked on the Customer Relations Management systems, mainly on the Server side. We wrote a J2EE system using Chordiant and writing data to an Oracle database. I was there during the exciting go-live period (03/03/03), when demand for solutions was high and problems were worked on at weekends and late evenings.

ASSERTAHOME – CONTRACT | Analyst Programmer | SEP 2000 – AUG 2002

Assertahome was a website which allows a user to search a property database using various criteria. Estate agents uploaded properties on a daily basis. The front end was JSP's and servlets, along with a lot of HTML and Javascript programming, which talked to EJB's running on Weblogic. On the server side was Solaris/Unix and the data was saved on Oracle 8.1 and accessed using PL/SQL (stored procedures).

I was part of the team that built the second release of this site, and after this was the lead programmer, mentor, and software designer/architect. I worked on the search engine, email and text message notifications, collection of 'key performance indicators' (over 50,000 pieces of data daily using multithreaded architecture) and just about every part of the site that has dynamic content. I was also responsible for ensuring the site worked correctly for all 300,000 hits per day, which involved trawling through log files and solving unreproducible bugs, many in the multithreaded paradigm.

- **Rewrote email/SMS job to run in minutes rather than hours** rewrote Java and SQL.
- **Kept app performance high** by advising and coding on busy parts of the site such as searching.
- **Became Lead Programmer and designer** was consulted on all amendments and improvements to site.
- **Three month contract became 2 years** was kept on after all contractors were released and some permanent staff made redundant.

NOMURA INTERNATIONAL – CONTRACT| Analyst Programmer | FEB 1999 – JUNE 2000

At Nomura I worked with the Prime Brokerage desk. We had to replace the legacy system with a web-based application to enable clients to view their portfolios and enter trades worldwide.

I wrote the Trade Entry part of the system. It was a three-tiered system, with HTML and Javascript at the front end, a Java Application Server on the server side, and all the data stored on a Sybase server using stored procedures.

Whilst here I did the analysis and design working directly with the desk staff. I maintained the production system, including real time reporting and interfaces with Tibco and I wrote the interface with Bloomberg for real time Fixed Income pricing which was written in Excel using VB macros. The Platform was a network of Sun Stations running Solaris/Unix.

GOLDMAN SACHS – CONTRACT | Analyst Programmer |AUG 1997 - FEB 1999

Working on a Fixed Income Front Office Global Trading System this role involved both development and production support. Solving issues with trade entry and flow to Back Office and Accounting systems, as well as trade reporting to the Bank of England and The London Stock Exchange. We worked directly with the traders and representatives at the LSE, European Stock exchanges and ISMA.

Programming was done in C++, C, PERL, UNIX, X-Windows, SYBASE using stored procedures and various spreadsheets in Excel/VB. There was also a lot of interfacing with other systems including real time pricing systems, and the same trade entry platforms in New York and Tokyo, using ghost guaranteed messaging.

I also designed and programmed a set of batch processes, which communicated with the ISMA central system via socket communications, using multi threading to increase the efficiency and Sybase to store the data.

DEUTSCH MORGAN GRENFELL – CONTRACT | Analyst Programmer | FEB 1997 - AUG 1997

At DMG I did analysis and programming for the credit risk reporting system. The system took feeds from all systems, back office and front office, and its function was to ensure exposure limits were not exceeded. All programming was done in C and SQL, with an Ingres database, on an IBM AIX running a UNIX operating system.

BUSY KIND LTD, NAIROBI – SELF EMPLOYED | MAR 1995 – FEB 1997

After travelling across land from London to Kenya (partly using a motorbike, the rest using buses, boats, bikes, and walking), I started a magazine for expatriates in Kenya. Working long hours we met very tight deadlines and managed to produce a monthly glossy magazine in a difficult business environment. I was responsible for most of the editorial, the accounts and IT requirements, dealing with staff, dealing with local government, printers, prepress, and advertisers and standing on street corners handing out magazines.

BANQUE PARIBAS – CONTRACT | ANALYST PROGRAMMER |SEP 1994 – FEB 1995

At Paribas I was contracted to do analysis, design and programming on a system for administering bonds. The system covered accounting, settlements, and position reporting for bonds traded by Paribas branches around the world. The programming was done in C and an Ingres database.

EASAMS / COMMERCIAL DIVISION – CONTRACT | ANALYST PROGRAMMER | MAY 1992 – JUN 1994

Developing a system for the collection of Council Tax, my responsibilities included database design, analysis, design and programming. It was written in C and SQL, using Ingres on a UNIX OS. I was involved in implementing the system it in various Council sites around the country.

PRICE WATERHOUSE – PERMANENT | GRADUATE TRAINEE CONSULTANT | JAN 1990 – MAY 1992

I was part of the Management consultancy Financial Services Division and was involved in projects at major clients including Barclays Bank, Foreign and Colonial Bank, United Friendly Insurance and the Bank of Bangladesh. Programming languages used included C, SQL, Ingres, and UNIX.

SOCIETE GENERALE MERCHANT BANK - PERMANENT | LOANS ADMINISTRATION | JUN 1989 – JAN 1990

At Societe Generale I worked in the loans administration department and was responsible for rollovers, new drawings, restructuring loans and reconciling mortgage portfolios.

EDUCATION

JOINT HONOURS DEGREE – Geography and Economics (Bsc) | University College London