

David Beaumont

Senior technical software architect with extensive experience in the design, implementation and optimisation of high and low level software systems. Strong mathematical background and analytical problem solving skills coupled with an excellent understanding of data structures and algorithmic design. Experienced at all levels of software design and development from requirements capture and initial algorithm design through implementation, testing and optimisation to documentation and software maintenance.

Seeking a senior software development position within in a dynamic team environment. Looking for a role in which good object oriented software design skills can help to produce a first class product.

Personal Details

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DOB / Nationality 7th November 1972 / British

Skills

Languages Java (including Java5), C++, C and a proprietary object oriented assembler language. Good experience with Perl, PHP, SQL, JavaScript, XML and HTML. Able to rapidly understand and adapt to new programming languages and methodologies.

Software Design Skilled at all levels of software design, from creation of efficient low-level routines to the planning of high level, multi-threaded applications. Experienced in designing independently or as part of a team on large projects for a world leading Java technology company. Excellent understanding of object orientation, entity relationship and object life-cycle analysis. Extensive experience with all stages of software design from initial requirements capture and algorithm design to the specification of clean, orthogonal APIs and testing regimes.

Implementation Highly accomplished at producing efficient, optimised code for resource limited devices using Java and platform specific tools. Strong understanding of algorithmic complexity and code optimization techniques. Able to produce representative prototyping code in order to explore problem spaces and experienced with code refactoring. Familiar with Agile programming methodologies and capable of working well within a structured development environment.

Environments Extensive experience with software development under Unix and Windows. Proficient with the Eclipse open source development environment; the GNU development tool-chain, including Emacs, Make, GCC, GDB, CVS, POSIX shell and command line utilities.

Communication Strong written and verbal communication skills and awareness of team dynamics. Capable of producing informative and accurate documentation at all levels. Experienced in negotiation with third parties regarding software requirements and compliance issues.

David Beaumont - (07905) 111362 – david.beaumont@goui.net

Career History

1996-2005

Software Developer for Tao Systems Ltd, Reading, UK.

Lead role in a dynamic software company implementing core libraries for the Intent Java solution. Responsible for design and development of graphical libraries for AWT, MHP and MIDP (J2ME). Clean object oriented design and good mathematical skills ensured that the libraries were smaller and faster than other Java implementations. Devices using the Intent Java runtime environment consistently maintain lead positions in industry recognised benchmarks such as JBenchmark.com.

Extensive experience working within a clean room development environment requiring strong analysis of public APIs combined with rigorous testing of initial designs to achieve compatibility with reference implementation. Also responsible for ensuring graphical libraries complied with external Java standards including the official Sun TCKs and the Prentice Hall test suites.

Worked with many high profile companies during integration of the intent Java libraries onto target devices including JVC, Motorola and Sony. Experienced with the provision of extended functionality and improved performance for technology partners via custom APIs.

Additional roles included the design and implementation of a low latency audio library for MIDP and work on many aspects of the Intent kernel and libraries, including synchronisation mechanisms and real-time scheduling. Also responsible for development of internal productivity tools including the automatic generation of code templates for the JDK libraries from official Sun documentation.

1994-1995

Software Developer for S.I. Technology, Oxford, UK.

Primary roles included developing graphical interfaces for air traffic control training software and implementing low level drivers for dual-head graphics cards.

Qualifications

1995-1996

M.Sc. Parallel Computers and Computation (Dist.), Warwick University.

1991-1994

B.Sc. Applied Mathematics and Computing (1st), Warwick University.

Personal Interest

Motorcycling

Active participant in a local advanced motorcycling group and member of the Institute of Advanced Motorists.

Skydiving

Qualified skydiver and member of the British Parachute Association.

Snowboarding

Advanced snowboard rider including off-piste and heli-boarding.

Fitness

Cyclist and regular user of local gym facilities.

References available on request.

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