Damien DeVille

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Profile

Software engineer with expertise in development on the Mac platform and keen interest in operating systems, concurrent and asynchronous programming, debugging and performance optimization.

Experience

Software Engineer, Dropbox Inc, San Francisco, CA – September 2014—Present
Software engineer on the Desktop Sync Quality team.

Software Engineer, Realmac Software, Brighton, UK – August 2011 — September 2014
Lead engineer on the Ember for Mac and iOS project.
I took ownership of the LittleSnapper for Mac project and led development of its reborn as Ember, an award-winning, modern, sandboxed, concurrent, modular and cross-platform application.
The main challenges were a heavy use of Core Data in a highly concurrent environment, an extensive separation of concerns and privilege between processes, services and frameworks in the application group and ensuring code portability, particularly with respect to document format and image editing.

Software Engineer, Imano PLC, London, UK – March 2010 — August 2011
Main developer on the TVGuide UK for iPhone and iPad project (around 2M users).
I also worked on the development of iOS apps from initial concepts through to final delivery for clients such as Citibank, Conde Nast, UEFA, DSNY, Harrods and Stella Artois.

Specialities

Objective-C, Cocoa, Cocoa Touch, C, CoreFoundation, Core Data, Core Animation
Assembly, including x86-64 and ARM
Concurrent and asynchronous programming, including Cocoa threading, Pthreads, libdispatch, XPC
Performance analysis and optimization, including Instruments and dtrace
Debugging with GDB and LLDB
API and framework design

Education

M.Sc Computer Science; University College London, UK – 2009
Dissertation: On Percolation Theory for Agent-Based Financial Modeling

M.Sc Financial Engineering; Birkbeck College, London, UK – 2009
Dissertation: On Numerical Methods for the Pricing of Commodity Spread Options

Laurea Magistrale in Economics and Finance; Università Politecnica delle Marche, Italy – 2008
Thesis: On Lévy Processes for Option Pricing: Numerical Methods & Calibration

B.Sc in Economics; Université Jean Moulin Lyon III, France & Granada, Spain – 2005

Languages

English, French, Italian, Spanish: fluent. Portuguese: intermediate