

Chris Whitney

crwhitney@me.com

University of California, San Diego



iOS Wireless Technologies

- Implemented native apps for Mac and iOS
- Created a comprehensive systems-level testing framework for iOS devices, with an emphasis on scripting Bluetooth, Location Services, Telephony, and WiFi
- Added new APIs to satisfy the requirements of the wireless technologies quality assurance teams
- Co-developed an Objective-C framework for device automation and related tasks
- Setup and maintained a large continuous integration cluster
- Debugged complicated issues across a broad technology stack — everything from low-level operating system components to web applications
- Built a dynamic remote procedure call mechanism to allow host-side scripts to hook into device-side frameworks
- Evangelized the projects to other teams
- Mentored new team members
- Managed feature priorities and coordinated deployment of software releases

Microsoft Office Labs^[1]

I Developed a prototype of an email filtering concept for Outlook. As one of two primary developers on the project, I quickly learned various Microsoft development technologies (C#, TFS, SQL Server) and presented the completed feature to other teams.

Google Summer of Code^[3] — Geoserver

- Created *JTileCache*, an open-source Java servlet for Web Map Service image caching
- Benchmarked against competitors and focused on delivering fast responses times across large datasets
- Demoed at the Google booth during the FOSS4G conference in Victoria, B.C. (Thanks to the efforts of The Open Planning Project, the project remains in development but under a new name, *GeoWebCache*^[4].)

NASA ISS EarthKAM^[2]

- As Software Team Lead, managed a small team of undergraduate software developers
- Recruited and interviewed prospective engineering hires
- Led a team responsible for calculating International Space Station flight paths and associated data
- Designed a new, cross-platform software infrastructure for processing terabytes of terrestrial photography
- Created database schemas, Java web apps, and in-house geospatial libraries
- Maintained and improved existing C, C++, and Perl code

- Graduated Bachelor of Science, Electrical Engineering
- Computer Architecture and Software Systems Depth Field
- Programmed PHP web forms for a student council website
- Recipient of a BAE Systems Scholarship

Now

2009

2008

2007

2006

2005

^[1] www.microsoft.com/office/labs

^[2] earthkam.ucsd.edu

cwsquared.net

^[3] code.google.com/soc/2007

^[4] geowebcache.org