

Brown University, Box 3524  
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## Education

**Brown University, Sc.B. in Mathematics-Computer Science. Global GPA 3.8/4.0. CS GPA 4.0/4.0**

Expected Graduation Date: 5 / 2009

- CS167/9 - Operating Systems (with lab)
- CS157 - Design and Analysis of Algorithms
- AM261 - Machine Learning
- CS123 - Computer Graphics
- CS143 - Computer Vision
- Abstract Algebra
- Cryptography
- Complex Analysis
- CS166 - Computer Systems Security
- CS173 - Programming Languages
- CS138 - Distributed Systems
- CG168 - Human and Machine Learning
- Mathematical Statistics
- Investments
- Investments II
- Probability

**United World College of the Atlantic (UWCAC), Wales, UK.**

*International Baccalaureate - final grade of 40/42 points. Merit scholarship. 9/2002 - 5/2004*

## Experience

### Apple - Cupertino

*Software Engineer Intern, iPhone Software Performance 5/2008 - 8/2008*

Developed a kernel tool to analyze wired memory leaks on iPhone. Wrote kernel and userland components of the tool in C. Worked with multiple groups in iPhone and CoreOS. First intern in the group.

### Google - NYC

*Software Engineer Intern 5/2007 - 8/2007*

Wrote a simulator for the Google Distributed Dynamic Tracing System for Linux in C++. Ported the whole system to run locally. Worked in a team of 15+ software engineers.

### CS167/9 Operating Systems Programming

*Weenix Operating System 9/2006 - 12/2006*

Wrote a UNIX-like cooperative multitasking Operating System with virtual memory.

### Undergraduate Teaching and Research Award - Brown University

*Modeling the spread of infections in networks 5/2006 - 9/2006*

Wrote a computer simulation in Matlab and Mathematica for an infection model based off our Dynamic Systems research. Used simulations to derive conjectures, which we then proved formally.

### Brown University Department of Computer Science

- *Teaching Assistant 9/2006 - Present*  
Head Teaching Assistant for CS167/9, Operating Systems, TA for Distributed Computer Systems, Introduction to Algorithms and Data Structures and for Introduction to Computer Systems.
- *Sun Lab Consultant 9/2006 - Present*  
Maintain the main departmental lab of 70+ workstations running Debian Linux and Windows.

### Royal National Lifeboat Institution - UWC of the Atlantic - Wales

*Rescue Station Coordinator - Rescue Team Member 09/2002 -05/2004*

Provided lifeboat coverage to the Bristol Bay. Trained juniors in first aid, meteorology, seamanship, rescue skills, survival, powerboat handling and boat building . Organized staff of 25+ rescue members.

## Skills and Interests

**Programming Languages :** C, C++, Java, L<sup>A</sup>T<sub>E</sub>X. Familiar with MATLAB, MIPS assembly, Scheme.

**Foreign Languages:** Fluent in Spanish, English, Gallego and Catalan. Proficient in Portuguese and French. Beginners Italian.

**Interests:** Sailing, travel (awarded scholarship to participate in the 2001 Ruta Quetzal "En busca del Spondylus" expedition), photography, scuba diving, swimming, iceboating. Technology House. Operating Systems and filesystems. Brown Investment Group. Technology Startups. mocha.cs.brown.edu.

September, 2008