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## Education

**Brown University, Sc.B. in Mathematics & Computer Science.** 9/2005 - 5/2009  
Overall GPA 3.8/4.0. CS GPA 4.0/4.0.

**United World College of the Atlantic (UWCAC), Wales, UK.** 9/2002 - 5/2004  
International Baccalaureate with Merit Scholarship. Final grade of 40/42 IB points.

## Experience

**Dedoware - Providence, RI** 5/2009 - Present  
*Founder*

Led the development of SnapShop, a comparison shopping application and its barcode scanning technology. Mustered a team of five people and secured angel funding.

**Apple - Cupertino, CA** 5/2008 - 8/2008

*Software Engineer Intern, iPhone Software Performance*

Developed iPhone kernel and userland components in C of a tool to analyze wired memory leaks on iPhone. Coordinated work across multiple engineers in iPhone, iPhoneOS and CoreOS.

**Google - New York, NY** 5/2007 - 8/2007

*Software Engineer Intern*

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.

**Mocha (brown.mochacourses.com)** 4/2007 - 8/2008

*Online course scheduling application written in Java, JSPs and JavaScript*

Devised and implemented a profitable business model based on book referrals to Amazon.com. Developed a crawler and scrapper in Ruby to extract book information from third-party websites. Site maintenance.

**iWant** 4/2006 - 5/2006

Co-Designed and co-developed a p2p napster-like, load-balancing, file sharing application in C,C++, GTK.

**Computing Advisory Board - Brown University, RI** 9/2008 - 5/2009

*Advisor to Brown's Vice President for Computing and Information Services and CIO*

Represented 5000 undergraduate students. Identified requirements and selected a lecture capture system to be implemented at the University level. Influenced allocation and cuts of multi-million dollar budget.

**Brown University Department of Computer Science**

• *CS Departmental Undergraduate Group, President* 5/2008 - 5/2009

Organized 10+ high-profile guest-speaker lectures and programming competitions.

• *Teaching Assistant* 9/2006 - 12/2008

Head Teaching Assistant for CS167/9, Operating Systems, TA for Distributed Computer Systems, Introduction to Algorithms and Data Structures and for Introduction to Computer Architecture.

• *Sun Lab Consultant* 9/2006 - 5/2009

Maintained the main departmental lab of 70+ workstations running Debian Linux and Windows.

## Course Work

**(Applied) Math:** Recent Applications of Probability and Statistics, Montecarlo Simulations for Finance, Abstract Algebra, Mathematical Statistics, Probability, Complex Analysis, Cryptography, Number Theory,

**CS:** Topics in Computer Vision, Machine Learning, Computer Vision, Design and Analysis of Algorithms, Computer Graphics, Security, Distributed Systems, Programming Languages, Systems Programming.

- Grad Seminar in Computer Vision: Researching and developing a glassware recognition system for www.willowgarage.com's robots in a team of 15+ Ph.D. and Master's candidates.

- Independent Study: Designed and developing a FUSE filesystem in Python to expose incomplete Bittorrent (and any) downloads as regular files. Extended Asynchronous FUSE API with a Python wrapper.

- Operating Systems: Wrote a UNIX-like cooperative multitasking OS with virtual memory, in C.

## Skills and Interests

**Programming Languages:** C, C++, Java, L<sup>A</sup>T<sub>E</sub>X, MATLAB, Python, HTML, Obj-C.

**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. Brown Investment Group.