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## EDUCATION

University of Pennsylvania, Philadelphia, PA

M.S.E. in Computer and Information Science

May '13

B.S.E. in Computer and Information Science, Minor in Mathematics

May '11

- Relevant Coursework: Randomized Algorithms, Software Engineering, Compilers, Graphics, Computer Architecture, Distributed Systems, Network Security, Engineering Entrepreneurship, Machine Learning

Ibn Khuldoon National School, Bahrain

May '07

International Baccalaureate Diploma, U.S. High School Diploma

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## TECHNICAL EXPERIENCE

### Projects

- **DJFeed** Android app that allows you to influence the party's music by voting and rating songs. *Awarded "Greatest Potential" in PennApps out of 30 apps, and accepted into DreamIt Ventures Philadelphia '11.*
- **Quaker OAT Compiler** A complete compiler from an OO type-safe language to x86 assembly. (OCaml)
- **LC4 Simulator** Assembly language interpreter with a small debugger to help learning students. (Haskell)
- **Art of Recursion** Recursive drawing iPad and iPhone app with canvas and touch screen drawing controls.

### Skills

- Proficient in: Java, Python, C, Assembly, HTML, Bash/Unix, SVN, Git, L<sup>A</sup>T<sub>E</sub>X, Emacs
- Experience with: C++, OpenGL, Qt, Verilog, x86, JS, CSS, Android, LAMP, Django, MongoDB, SQL, OCaml, Haskell, Coq, Elisp, Objective-C, XCode

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## PROFESSIONAL EXPERIENCE

Teaching Assistant

Computer Science Dept, University of Pennsylvania

- Taught lab for Computer Architecture, Organization & Design (*grad & undergrad*). Spring '11, '12, Fall '12
- Graded and held office hours for Mathematical Foundations of Computer Science. Summer '10

Low-Level Engineering Intern

Apple Inc. Cupertino, CA

June - Aug '12

- Consolidated data structures within the Objective-C runtime through research and profiling.
- Benchmarked and improved performance of memory management in the Objective-C runtime by up to 80%.

CTO & Co-Founder

Stunable.com LLC New York, NY

May '11 - Feb '12

- Delegated tasks to intern regarding informational site, logo, blog, and back-end development.
- Negotiated with web development firms and provided specifications for design and development of website.
- Developed custom web crawler to populate clothing database using Python Scrapy and Django frameworks.

System Administrator

Distributed Systems Lab, University of Pennsylvania

Sep '10 - May '11

- Managed 20+ Linux servers and three subnets including regular maintenance and service requests.

Programmer

Linguistic Data Consortium Philadelphia, PA

June - Aug '10

- Updated and consolidated Chinese and Arabic word alignment programs with Python and PyQt.

Chemical Engineering Intern

Bahrain Petroleum Company (BAPCO) Bahrain

June - Aug '08

- Led a group of five interns in successfully identifying Carbon Credit opportunities within the refinery.
- Presented weekly to CEO and board, and finally to government officials and over 350 members of management.

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## SKILLS & INTERESTS

- Fluent in English and Arabic. Proficient in French. Amateur in ASL.
- Founder and current manager of the Emacs Club (<http://www.emacsclub.com>).
- Enjoy playing guitar, squash, Go, video games, and having great conversations.