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Education

> **Yale University, New Haven, CT.**
> Bachelor of Science in **Computer Science**, expected May 2016.
> Bachelor of Science in **Applied Mathematics,** expected May 2016.
> **GPA:** 3.57
> **International Baccalaureate Diploma**: Total Score 42/45

Activities/ Work Experience

> **Engineering Intern** at **Two Sigma Investments** (June 2015 - August 2015):
» Member of the team that develops **Beaker**, an **open-source** notebook-style development environment for data scientists composed of an **AngularJS frontend** and a **Jetty (Java) server**.
» Single developer of a **multi-platform** native version of Beaker which supports closer interaction with the operating system's user-interface using **Electron JS**, a framework for native **NodeJS** applications**.**
> **CS50 Teaching Fellow** (Fall 2015)**:**
» Part of CS50's staff, a joint Harvard-Yale introductory course to Computer Science.
» Responsible for **teaching** and grading a section of thirteen students.
» **Held office hours to assist students with questions and debugging.**
> **Data Visualization Programmer** at the Yale Center for Environmental Law and Policy (May 2014 – Present):
» Developed web based visualizations and applications built in **PHP** and **Javascript** with an extensive use of **jQuery, D3** and **CartoDB**.

Academic Projects

> Built a **distributed, fault-tolerant, quorum-based key-value store** tailored for low-powered devices, such as robot swarms.
> Developed a **compiler** for the Tiger programming language in Standard ML**,** a **functional programming language**.
> Built a **decentralized file-sharing application** using **C++**. Project focused on the optimization of large sequential file transfers from multiple peers, through a design based on **Merkle tree** structures.
> Completed JOS' kernel code, an **exokernel operating System** by MIT, designed to teach students through a hands-on coding approach.
> Currently doing **data analysis research** on spectrograph calibration techniques for Doppler spectroscopy exoplanet surveys.

Skills

> **Advanced: C**, **Javascript**.
> Intermediate: C++, Java, Golang, Standard ML, Python, R.
> Experience integrating **SQL** databases onto various projects.
> Five years experience with **UNIX-like** systems and the **UNIX shell**.

Awards

> Selected as a C. Prescott Davis Scholar by Columbia University, a title awarded to Columbia's most promising applicants in the field of Engineering.
> 1st place physics, 2nd place mathematics at the Tecnológico de Monterrey's Science Contest 2012, which attracts hundreds of students across Mexico.
> High School Honorific Mention of Excellence, offered an Excellence Scholarship for college studies at the ITESM.