Charlie Yan

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EXPERIENCE

Software Development Engineer 1, Amazon.com   **May 2013 – Present**
- Developed a new Java Spring service for ingesting data about billions in cash transactions per day to accounting platform. Migrated all global traffic to use new service. Built Ruby on Rails interface around service that simplified cash related developer operations.
- Worked with technical and business teams to onboard new international businesses and new payment use cases onto our platform. Increased global automated accounting coverage from 85% to 92%.
- Refactored all services to be fully configuration-driven, vastly reducing developer effort needed to onboard new businesses and accelerating efforts to reach 100% automated accounting.

Research Assistant, University of Michigan CS Dept.   **Jan 2012 – May 2013**
- Applied machine learning techniques to classification and object detection problems.
- Implemented and analyzed performance of new architectures.

Instructional Aide, University of Michigan ECE Dept.   **Jan 2012 – May 2013**
- Taught six laboratory sessions of the Digital Signal Processing Lab course to engineering upperclassmen for 3 semesters.
- Mentored student teams with their capstone design projects throughout the semester.

Summer Technology Analyst, Barclays Capital   **May 2011 – Aug 2011**
- Developed Java/Flex web apps for Equities Research.

Summer Intern, Duo Security   **May 2010 – Aug 2010**
- Worked on TrustedPath application programming interface helper libraries for Ruby, Python and PHP so other web applications could use TrustedPath for authentication.

Founding CTO, TogoHealth   **Nov 2009 – Aug 2011**
- Designed, implemented, and deployed TogoHealth EMR, a web based electronic medical record for tracking patient appointments.
- Traveled to BayArea to meet with venture capitalists for advice and funding opportunities, pursued early stage funding from Frankel Fund.
- Managed a team of three developers as tech lead, wrote technical specifications for five software products and setting development deadlines.

EDUCATION

University of Michigan College of Engineering — Dual Degree in CS and EE
Graduated May-2013, GPA 3.71, *Magna Cum Laude*
- Algorithms
- Operating Systems
- Image Processing
- Machine Learning
- Artificial Intelligence
- Databases
- Digital Signal Processing
- Control Systems
- Real Analysis
- Linear Programming
- Probability

PROGRAMMING LANGUAGES

- C++, Python, Ruby, Java, Matlab, Javascript