William Yao

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Education

Johns Hopkins University
Graduating May 2018
Computer Science
Film and Media Studies
GPA: 3.5/4.0

Coursework

Data Structures

Algorithms

User Interfaces and Mobile Applications

Object Orientated Software Engineering

Computer Systems Fundamentals

Artificial Intelligence

Machine Learning

Computer Vision

Computer Networks

Skills

Programming
Java / C++ / C / C# / Javascript / CSS / Python / PHP / XML

Frameworks
Ruby on Rails / Reactjs / Angularjs / Nodejs / Ionic / React Native

Databases
MySQL / Firebase

Experienced With
Web & Android & iOS App Development / Mobile Game Development / UNIX / Unity

Production
After Effects / Premiere Pro / Flash Professional / Audacity

Design
Photoshop / Sketch

Interests and Languages
Hip-Hop / Guitar / Bamboo Flute / Japanese / Mandarin / French

Professional Experience

Semester.ly Software Engineer   September 2016 - Present

- Designing and developing front-end infrastructure for a **course scheduling platform** to allow students to conveniently choose classes and replace their school's antiquated enterprise software
- Implementing new features and gaining exposure to the back-end, transitioning to full stack development
- Over **469,000 unique** timetables created, **4,800** accounts and counting, 1,900 30-day daily active users and counting, currently at 8 universities
- Holding workshops on how to contribute to our open source codebase
- Leading expansions to University of British Columbia and Simon Fraser University

Wayfair Android Software Engineer Intern   June 2017 - August 2017

- Designed and implemented **mobile front-end testing suite** to automate manual testing labor, exceeding quarter goal by **200%**
- Taught **department wide workshops** to interns and employees on how to write fast and smooth user interface tests effectively
- Integrated **AR technology** into the mobile app to display 3D models in user's environment, receiving **media coverage** and partnership with Verizon
- Boosted **conversion rate by 3%** through overhauling the checkout user experience and developing new features that would compliment the change
- Increased crash-free rate by 5% by actively developing and communicating solutions with the Android team

Forkable Software Engineer Intern   June 2016 - October 2016

- Developed a **web-app** incorporating AngularJS with Ruby on Rails to generate and manage lunch orders for our client's employees
- Deployed to over **700** daily users in companies across 4 cities, generating over **50,000** meal orders in total since June
- **Tripled** client management efficiency through revamping over 15 designs from the previous UI, then implemented those frontend changes
- Overhauled the splash page and decreased bounce rate by **20%**, now reaching over **1,500 unique** users each day

Projects and Leadership Experience

Alpha Kappa Psi Business Fraternity Marketing Chair   March 2016 - Present

- Raised over **$1,600** within 3 weeks by creating and implementing deliverables for 4 fundraising events, then executing operations
- Designed a training program and mentored students in social media marketing with hands-on experience, promoting an annual charity event, raising **$2,200**
- Fostering 5 student startups and promoting their mission with digital marketing

MAVI: Mobile Assistant for Visually Impaired Full Stack Engineer   February 2017

- 🏆 Hophacks: Finalist, Johns Hopkins University's Best Healthcare Hack
- Developed **novel object classifiers** to recognize special objects including crosswalk signs and their states using OpenCV
- Established RESTful API to provide object recognition service to multiple clients

Koala: Real-Time Conversation Translator Full Stack Engineer   October 2016

- 🏆 Hophacks: **2nd Place** Overall, Bloomberg's Most Philanthropic Hack
- Created a **Node.js app** using Google Cloud Speech API and Google Translate API to detect spoken language, generate translation, and correct grammar on the fly
- Established **network sockets** between the client and our server to provide translation for streaming audio