Ben Backus

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TECHNICAL SKILLS SUMMARY

Languages & Tools

Python, Java, C, C++, JavaScript, HTML5, CSS3, Git, Django, Tornado, React, Vue, Angular, Selenium, Postgres, SQL, MongoDB, AWS & Google Cloud

Concepts & Theory

full-stack, machine learning, image recognition, NLP, data scraping & cleansing, design patterns, unit testing, graphics, optimization, computability theory, complexity theory

EDUCATION AND TRAINING

Stanford University,
Class of 2020
3.5 GPA

- B.S. Symbolic Systems (Computer Science) June 2020
- Coursework in machine learning and deep learning (CS109, CS124, CS221, CS230) and Computability Theory (CS103, CS154, Phil 152, Phil 162)
- Video design and set automation for student-run theater production of *Chicago*, 2018

WORK EXPERIENCE

Stanford University R&DE
Sustainability Department,
Stanford, CA

Lead Software Engineer & Hardware Engineer (part time)
September 2018 – present
- Lead team that developed sensor to be installed in Stanford's dumpsters to accrue data about disposal schedule, dormitory waste disposal trends, evidence of contamination.
- Worked with Particle's mesh network devices and Walabot's 3D imaging sensor
- Developed frontend & backend of web portal using Django and Vue.js
- Profiled in: news.stanford.edu/2019/07/11/students-develop-technology-measures-dumpster-usage/

Two Six Labs, Arlington VA
VC-Backed: Dell, Harbert, NAV, Grotech

Software Engineer (full time)
June 2019 to September 2019
- Worked on DARPA-funded, multi-tier, scalable application for the U.S. Government
- Worked with Tornado and Vue.js frameworks; Developed test automation architecture
- Wrote production code and gained thorough experience with complex design patterns
- Developed UI to modularly integrate instructions for schematic components

23andMe, Mountain View, CA
VC-Backed: Sequoia, GV, Mohr Davidow, Sapphire

Software Engineer (part time school year; full time summer)
February 2017 to October 2017
- Worked on confidential project with Agile team; wrote groundwork for backend API requests and developed testing and automation infrastructure
- Worked with Django, ReactJS, Facebook & Twitter APIs, and PIL and D3.js libraries
- Wrote production code and developed entire web application in last three weeks
- Contact mikep@23andme.com for specific details or questions

Cloudistics, Reston, VA
VC-Backed: Bain Capital

Software Engineer (full time)
June 2015 to August 2015; June 2016 to September 2016
- Developed hardware statistics gathering software and internal company website from scratch using Django and Angular to make user data more accessible for customer support, sales, QA, and the engineering team
- Developed API for SaaS portal; wrote python scripts and learned how to efficiently parse and clean data
- Wrote production code developing web technologies and relational databases

Additional Proficiencies: JSON, SaaS, REST, Agile, Atlassian products, Linux, AJAX, Jenkins, OOP