Ben Backus

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TECHNICAL SKILLS SUMMARY

Languages & Tools

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

Concepts & Theory

full-stack, machine learning, data visualization, image recognition, NLP, data scraping & cleansing, unit testing, graphics, optimization, computability theory, complexity theory, OOP, Agile methodology, mesh networks, sensors

EDUCATION AND TRAINING

Stanford University,
Class of 2020

- 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 production of *Chicago*, 2018
- Lead team that developed dumpster sensors for sustainability department using Particle's mesh network devices and Walabot's 3D imaging senso; 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/

WORK EXPERIENCE

Two Six Technologies, Arlington VA
Project: Ike
VC-Backed: Dell, Harbert, NAV, Grotech
Acquired by Carlyle Group

Software Engineer
October 2020 – present
- Developed data visualizations from scratch such as Gantt, Radar, Pie, Bar, Moving Timeline, and other custom visualizations using d3, c3, SVG, jQuery, and JavaScript
- Made database changes to accommodate new frontend features using Avro schema
- Implemented various features and fixed various bugs, merged 60+ PRs
- Received highest salary increase of class for exceeding expectations
- Active Security Clearance

Two Six Labs, Arlington VA
Project: 8Wire
VC-Backed: Dell, Harbert, NAV, Grotech

Software Engineer
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

Cloudistics, Reston, VA
VC-Backed: Bain Capital

Software Engineer (full time)
June 2015 to September 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