Owen Zhang

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EDUCATION

University of California, Berkeley Expected Graduation: May 2021
Computer Science, GPA 3.8

Highlights: CS 61B: Data Structures • CS 170: Algorithms • CS 61C: Computer Architecture • CS 162: Operating Systems
Other: CS 70: Discrete Math/Probability • CS 188: Intro to AI • CS C100: Data Science • CS 186: Databases

TECHNICAL SKILLS/TOOLS

Proficient:	Java, Python, C, HTML, CSS, React	Git, Docker, AWS, Spring, Postman
Familiar:	SQL, C++, C#, Jupyter, Tableau	Node.js, XML, OpenCV, Angular
Learning:	Assembly	OpenMP

REVELANT EXPERIENCE

Technology Summer Analyst, Morgan Stanley Jun 2020 – Aug 2020
- Broke ground on a new graph database visualization for Morgan Stanley, transforming how the company views and analyzes data about its business operations
- Designed and implemented a web interface with natural language search using React.js, D3, and a REST API from Lymba, an NLP services company

Software Engineer Intern, Salesforce Jun 2019 – Aug 2019
- Integrated Caffeine, an internal workflow management tool, with Amazon RDS and SQS
- Implemented necessary architecture changes for Caffeine for the integration with AWS
- Dockerized Caffeine for local development, greatly simplifying the setup and startup process
- Used Java, Spring framework, Git, Docker, AWS, and Postman

Tutor, SY Academy Aug 2018 – Dec 2018
- Assist students at Berkeley City College trying to transfer to UC/CSU schools by offering tutoring in math and computer science
- Classes taught: Python, C++/Object Oriented Programming, Calculus II, Linear Algebra

PERSONAL PROJECTS

BearMaps (Java, XML**)**
- Developed small-scale version of Google Maps for the Berkeley area, including directions search
- Parsed XML data files to retrieve location information used to autocomplete user input
- Rendered map image tiles according to user queries, minimizing lag for zooming in/out

Ensign (Python, HTML/CSS, OpenCV library)
- Created a web app to help the hearing impaired and their loved ones learn basic sign language
- Image recognition and classification with Python and the OpenCV library (computer vision)

Fall 2020 Campus Reopening Map (Tableau, Python/Jupyter)
- Developed a map visualization of which campuses are going online, holding in-person classes, or something in between for the Fall 2020 semester, using Tableau
- Requires cleaning/manipulating a large dataset using Jupyter notebooks

Minesweeper (Java, JavaFX, XML)
- Created a Mac trackpad-friendly version of Minesweeper
- Has multiple difficulty settings and can track the player's stats