Jake Kim

www.jakekim.me | jake.kim114@berkeley.edu | linkedin.com/in/jakekim114 | 510-859-5219

Education

University of California, Berkeley   **Expected Graduation**: May 2023
- B.A. in **Computer Science**   **GPA**: 3.6
- B.A. in **Data Science**
- **Relevant Coursework:** Algorithms, Operating Systems, Data Structures, Computer Architecture, Robotics, Optimization Models, Data Science, Discrete Math & Probability, Multivariable Calculus, Linear Algebra

Skills

- **Programming**: Java, Python, C/C++, Ruby, SQL/NoSQL, JavaScript, TypeScript, HTML/CSS, RISC-V, x86, Go
- **Technologies:** Git, Raspberry Pi, Node.js, React.js, Jenkins, Bootstrap, GraphQL, ROS, Unity, AWS, PostgreSQL

Work Experience

First Republic Bank   May 2021 – July 2021
Software Engineer Intern
- Developed Docusign API framework to automate more than 300+ daily electronic signatures using Node.js and Jenkins
- Created highly scalable backend REST API microservices to serve over 500+ new clients' onboarding using JavaScript
- Managed 40+ backend banking services using Jenkins pipeline deployed on OpenShift cluster for automated operations
- Fixed frontend bugs for account application projects by modifying React components like datepicker and timepicker

HungerSwipe   August 2020 – January 2021
Software Engineer Intern
- Developed a user authentication API on Loopback by using JWT token and REST API methods (post, put, get, patch)
- Incorporated Passport Authentication system on Loopback to provide easy-login through Google, Facebook, Instagram
- Yielded a 25% growth in user feedback by redesigning React Native components to optimize for user-friendliness
- Improved quality of restaurant data by redesigning a relational database on PostgreSQL to incorporate Yelp's API

UC Berkeley EECS Department   September 2019 – Present
CS Teaching Academic Intern
- Reinforced learning for students in a data structures class of 1200+ students by hosting weekly office hours and tutoring
- Collaborated alongside Graduate Student Instructors to implement and reshape curriculum as well as grade assignments

Projects

CAN Bus Communication | Personal Project (C++, Mbed, Altium, SPI)
- Developed a CAN bus protocol capable of coordinating data transmission between 3 sensors and microcontrollers
- Incorporated SPI to retrieve real-time data from sensors and designed PCB layout in Altium for hardware testing

PintOS | Group Project (C, Ruby, x86)
- Developed an operating system capable of executing multithreaded programs with deadlock-free scheduling algorithms
- Incorporated an index-based filesystem that supports complex subdirectories with a buffer cache and tested using Ruby

NFL Draft Sentiment Analyzer | Kaggle Datathon Group Project (Python, Pandas, Matlab)
- Analyzed 5000+ Reddit comments on NFL draft using VADER natural language processing with sentiment values
- Conducted data visualizations using pandas to conclude that rookies' playing time has 65% correlation to comments

Extracurriculars

Data Science Society at Berkeley
- Managed a team to develop an NLP project that predicts NFL draft picks' performance based on Reddit comments

Computer Science Mentors
- Taught sections on Object Oriented Programming, Tree recursion, Database/SQL. Received overall rating of 4.6 / 5

Interests

- Weightlifting, Pickup basketball, Fantasy football, Bracketology, Drumline, Hackathons, Kaggle projects, Golf