Kevin Gao

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EDUCATION

University of California, Berkeley, 2022

- Bachelor of Science | Major in Electrical Engineering & Computer Science
- GPA: 3.76 / 4.0
- Relevant Coursework: Algorithms, Data Structures, Data Science, Machine Learning, Artificial Intelligence, Deep Neural Nets, Computer Graphics, Networking, Computer Security, Probability Theory, Linear Algebra, Multivariable Calculus

WORK EXPERIENCE

Flock Shop Inc. Co-Founder, Full-Stack Engineer — July 2020 - Present

- Y Combinator Startup School 2020
- Developed a React Native shopping platform that connects customers through content-based social media, friend-group shopping, user-driven product listings, and dynamically-generated discounts
- Developed a decentralized realtime chat using WebSockets where users can shop together and split costs securely, eliminating server costs
- Leveraged natural language processing to detect offensive language in comments, decreased false positives by 80%
- Implemented Firebase, Stripe, and Heroku to handle backend

Paypal, Software Engineer Intern — May - Aug 2021

- Developed realtime alerting system to detect transaction anomalies in Paypal production data
- Picked up new coding language (R) to do specific statistical computations
- Deployed using Docker onto Linux systems
- Set up continuous integration with Jenkins, increasing development efficiency by 50%

UC Berkeley, Web Developer — Oct 2019 - June 2020

- Developed a backend for hosting university psychology experiments at lab.tellab.org using NodeJs
- Implemented security protocols including CORS, SSL, TLS, and redesigned database password storage
- Designed an experiment editor using WebGL and React allowing user-friendly drag-and-drop options, increasing user retention by 30%

PROJECTS

Yelp Review Predictor | Python | Tensorflow

- Developed neural nets to detect sentiment in Yelp reviews, taking as input common text and outputting a discrete rating one to five

Procedural Map Generation | Java

- Created an algorithm to procedurally generate realistic terrain by running Google Earth images through a neural net to get realistic transitions and mapping the output of the algorithm back to specific terrain from Google Earth

Habitica | Javascript | React Native | Swift | Open Source | Mobile/Web Developer

- Designed and implemented a notification system for a habit tracker app using React Native and native api

Bear Maps | School Project | Java | Algorithms

- Implemented A* path searching algorithm to find the optimal path to certain restaurants based on current traffic conditions
- Modified algorithm to take into account 1) slope grade and effect on gas mileage and 2) pedestrian levels' effect on road safety

SKILLS

Python, Pandas, Numpy, Javascript, NodeJs, Java, MATLAB, R, C, C++, MySQL, MariaDB, MongoDB, Docker, React Native, backend development

HOBBIES

Art, boxing, German