ANDREW KOU

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EDUCATION

University of California, Berkeley
Aug 2018 - May 2022

Computer Science, B.A.
Data Science, Minor
Certificate in Design Innovation
GPA: 3.70 / 4.00

COURSEWORK

- Operating Systems
- Data Structures
- Algorithms & Intractable Problems
- Computer Security
- Computer Architecture
- Information Systems & Devices
- Artifical Intelligence
- Linear Algebra
- Discrete Mathematics
- Probability
- Databases
- Data Science Foundations
- User Interface Design
- Human-Centered Design

SKILLS

Programming
Python, Java, Go, Javascript, C

App Develoment
HTML, CSS, Git, ReactJS, AngularJS, Vue.js, Node.js, Express.js, TypeScript, SQL, PostgreSQL, GraphQL, Elasticsearch, Cypress, Jest

Design
Figma, Adobe Creative Suite (Illustrator, Photoshop, Indesign)

PROFILES

Github
github.com/andrewhkou

LinkedIn
linkedin.com/in/akou

Personal Website
akou.io

EXPERIENCES

Amazon   May 2020 - Aug. 2020
Software Engineering Intern, Digital Goods Team

- Developed web tool to track information about digital content published to Amazon's catalog, fully integrated with internal services.
- Indexed data into Elasticsearch cluster to provide real-time information search. Set up authenticated API endpoint for secure access.
- Consolidated and classified data from 20+ information sources to reduce burden for oncall when resolving failed publishes.

Codebase   Jan. 2019 - Present
Full-Stack Developer, Project Manager

- Developer for software engineering organization contracted to create software products for high-growth start-ups around the Bay Area.
- Ensured project success through transparent communication with point of contacts, clean code, and regular code reviews.
- Former clients include Postman, Atlassian, Bill.com, Hackerrank.

UC Berkeley EECS Department   Jan 2020 - May 2020
Academic Intern

- Responsible for managing office hours and section of 40 students in computer architecture course.
- Tutored students in topics including C concepts, assembly code, memory, caching, virtual memory, and parallelism.

PROJECTS

Medical Form Parser   Jan 2020 - May 2020
Python, Vue.js, AWS

- Created web application that parses medical forms and created a corresponding digital form for patients to fill out on their phones.
- Created serverless workflow to parse text from form, locate input field positions, and store forms online using AWS Lamba, Textract, and S3.
- Trained machine learning models (Naive Bayes + logistic regression) to classify form input field types, such as dropdown item or free response.

Bill Payment Web App   Sep 2019 - Dec 2019
Typescript, AngularJS, GraphQL

- Contracted by Bill.com (automated bill payment company) to build a bill payment platform for small businesses to request and send payments.
- Integrated with Bill.com's API to display up-to-date payment information and allow users to complete transactions.
- Handled user authentication and implemented sessions for secure login.

Hackathon Scoring Portal   Jan 2019 - May 2019
ReactJS, Express.js, Node.js, PostgreSQL

- Designed and built a web portal for hackathon judges to use to score projects. Used at CalHacks 5.0, world's largest collegiate hackathon.
- Developed matching algorithm to pair judges with projects based on criteria such as project type and award category.
- Compiled score inputs by award category in database and displayed winners of each category.