

Patrick Wang

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EDUCATION

University of California, Berkeley

May 2024

Bachelor of Science in Electrical Engineering and Computer Science

GPA: 4.0/4.0

Relevant Coursework: Data Structures, Discrete Math & Probability, Computer Architecture, Efficient Algorithms, Intro to Artificial Intelligence, Operating Systems & System Programming, Intro to Databases, Principles of Data Science

PROFESSIONAL EXPERIENCE

Ramp

New York, NY

Incoming Software Engineer Intern

Sep 2023

Databricks

San Francisco, CA

Incoming Software Engineer Intern, Data Governance

May 2023

Stripe

Seattle, WA

Software Engineer Intern, Issuing/Funding

Jan 2023 – Mar 2023

- Constructed efficient query and index allowing for team developers to more easily debug and resolve merchant incidents
- Created manual workflow to safely run tasks involving money movement between accounts of up to \$10 million
- Developed an API shape for merchants to easily view credit usage, increasing awareness of potential authorization declines
- Merged transfer flows between funding models to improve code manageability and satisfy EMEA e-money regulations
- Automated load testing to test scalability up to millions of transactions, revealing failed index builds and performance issues

Riot Games

Los Angeles, CA

Software Engineer Intern, Incident Management

May 2022 – Aug 2022

- Created GitOps with complete CI/CD pipeline for BigPanda alert configurations allowing for cross-team collaboration between hundreds of employees and protection against breaking changes using Python, Docker, Groovy, and Jenkins
- Expanded API client and fixed sub-optimal software engineering practices in existing codebases

Amazon

San Francisco, CA

Software Development Intern, Amazon Music Royalties

Feb 2022 – May 2022

- Contributed to the payment service for Amazon Music's royalty payments to labels and producers
- Optimized config and mapping loading times for the payment service, reducing execution times by over 90% and increasing service reliability against failures in various AWS services with Python, Java, Guice, S3, DynamoDB, Lambda
- Automated adjustment payments for minimum revenue contracts, handling payments of up to \$10 million to labels

Hatch

Seattle, WA

Software Engineer Intern

May 2021 – Aug 2021

- Contributed to an incubator and forum for startups, allowing for convenient idea validation, user feedback, and advanced customer metrics using NextJS, AWS CDK, EC2, S3, DynamoDB, RDS, Lambda, and SQS
- Created high priority features necessary for the product, such as user preferences, feedback requests, notification systems, chat systems, and customer engagement rankings

University of California, Berkeley

Berkeley, CA

Undergraduate Student Instructor

Jun 2021 – Present

- Lead discussions of more than 50 students in the introductory computer science course at Berkeley, receiving outstanding course evaluations, with a focus area on software and videos
- Create walkthrough videos to guide students, as well as develop website, office hour queues, section tools, and more for 2000 students each semester using React, Flask, MySQL, and Google Cloud

PROJECTS

ShallowSleep – Sleep Stage Classification

Jan 2021 – May 2021

- Predicted people's sleep stages using only radio waves, compared to traditional and costly sleep studies
- Developed a machine learning model with an adversarial architecture using LSTMs and CNNs, along with a website to visualize predictions and statistics using Pytorch, ReactJS, and Firebase

EXTRACURRICULAR EXPERIENCE

Launchpad

Berkeley, CA

VP of Marketing, Head of Education, Web developer

Jan 2021 – Present

- Design education curriculum for new members, and organize logistics for club recruiting for hundreds of applicants
- Work on projects in a variety of machine learning disciplines and develop website for thousands of users with Django

SKILLS AND LANGUAGES

Languages: Java, Python, Ruby, SQL, C, Go, JavaScript, HTML/CSS, C, Rust, LISP

Technologies: TensorFlow, React, NextJS, AWS, NodeJS, Firebase, Jenkins, Docker, Flask, Django, Google Cloud, Kafka