HENRY CHIU

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EDUCATION

University of California, Berkeley Berkeley, CA
B.A. Computer Science Expected: May 2024
- Relevant Coursework: Data Structures, Algorithms, Discrete Math, Probability Theory, Linear Algebra, Multivariable Calculus, Artificial Intelligence, Computer Architecture, Database Systems, Computer Security, Operating Systems, Software Engineering

EXPERIENCE

Plaid San Francisco, CA
Software Engineering Intern May 2023 - Aug 2023
- Scoped and built an internal app using TypeScript, React, and Redux that allows risk analysts to create new rules, view existing rules, and set rule bypasses on Plaid's anti-fraud rules engine, improving the speed and reliability of risk incident response
- Sped up database performance by refactoring frequently-run Redis calls, reducing run time from minutes to seconds
- Revamped the client onboarding flow using React and Go so that form data is unified in the backend as a single source of truth

Verkada San Mateo, CA
Software Engineering Intern May 2022 - Aug 2022
- Led an overhaul of the access control homepage, which involved coordinating with designers and product managers and developing a widget dashboard using React, Redux, and TypeScript, to improve product scalability and user experience
- Contributed to Verkada's UI library by creating 10+ functional and reusable React components and custom hooks

Tesla Palo Alto, CA
Software Engineering Intern Jan 2022 - May 2022
- Created an internal demo tool for a new Powerwall app using React and TypeScript, which featured real-time Powerwall integration, a CI/CD pipeline, and version switching capabilities, to facilitate the development and testing of the app
- Implemented efficient React user interfaces for the new Powerwall app, which cut down Powerwall installation times by 15%
- Introduced 30+ automated UI and unit test suites for Energy apps using Selenium and Mocha, increasing code coverage

Playground New York, NY
Software Engineering Intern Jan 2021 - June 2021
- As engineer #4, developed user interfaces for the management platform using React and TypeScript for 15,000+ active users to expedite school management processes

Technology and Innovation Teen Assistance Network Union City, CA
Instructor, Co-founder Feb 2019 - June 2020
- Founded a 501(c)(3) nonprofit that aimed to expose local youth to computer science by leading a team of 5 to teach a Java object-oriented programming curriculum to 100+ underrepresented middle school students throughout weekly classes

PROJECTS

Kalenda | *Group Meeting Scheduling Platform* Apr 2021
React, Redux, Node.js, REST API, Next.js, TypeScript, HTML, Sass, Firebase, Figma
- Created a full-stack web app to solve the major issues of scheduling group meetings, with features like one-click Google Calendar integration, email updates, and custom invite lists, which resulted in a user base of over 300 active users
- Led team of 4 to build the scheduling tool, auth flow, and events dashboard using TypeScript, React, Redux, and custom hooks

James Logan High School Yearbook Store | *E-commerce Website* Jan 2020
React, Node.js, REST API, JavaScript, HTML, Sass, Express.js, Firebase
- Engineered an e-commerce website using React, Node.js, and Express.js that accumulated 2,000+ unique visitors
- Deployed a REST API backend to handle 400+ customer transactions, resulting in a monthly revenue of nearly $2,000

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Go, Python, Java, C, HTML, CSS, SQL
Frameworks and Technologies: React, Redux, Node.js, Express.js, REST API, GraphQL, MongoDB, Next.js, Jest, Git, Redis