

Kevin Chou

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Certifications

AWS Solutions Architect Associate (SAA-03)

AWS Developer Associate (DVA-03)

Work Experience

4/2023 - Current | PG&E, Sherlock Team | Expert Software Engineer + Engineering Lead + SME

Takes full ownership of the codebase, designing and implementing solutions to address performance issues and drive optimizations. Continuously advances the team's technical capabilities by introducing and adopting new workflows, coding standards, and best practices, while fostering a strong engineering foundation and culture. Manages project initiatives by aligning technical execution with clear end goals and creating actionable plans to achieve them. Proactively researches and develops innovative solutions to solve technical challenges and optimize resources, including reducing AWS cloud costs and eliminating unnecessary team efforts.

2/2020 - 9/2021 | PG&E, Sherlock Team | Senior Software Engineer + SME

JavaScript, React, Redux, Node.js, GraphQL, AWS

Helped the company achieve its inspection goal by ensuring approximately 60,000 high fire tier structures were inspected through the Sherlock web application by the mid-year deadline. Communicated with business leaders throughout the 2021 inspection cycle and led feature analysis, design, and implementation. Made critical and technical decisions across frontend design, frontend state management, API integration with REST and GraphQL, and database schema design, while achieving 100% unit test coverage for both frontend and backend using Jest. Also provided QA, on-call support, data analysis, and reporting.

6/2022 - 4/2023 | Capital One, PXD Team | Principal Associate Software Engineer

AWS, Next.js

Developed automated internal notification systems for Slack and email using AWS services such as SQS, Lambda, SNS, and CloudWatch. Integrated APIs into applications to notify users of key tasks including access approvals, travel and expense reports, and computer-based trainings. Designed and implemented a caching system to minimize system load on integrated APIs, enhancing performance and efficiency.

9/2021 - 5/2022 | Apple, Special Projects Team | Senior Software Engineer

Typescript, Angular, Rxjs, Cucumber, Puppeteer

Build the automated integration testing suite.

11/2016 - 5/2019 | Willis Towers Watson | Actuarial Developer

Clients: Boeing, Teledyne, Recology, Bank of the West, SVMH, Sierra Club

Developed Visual Basic and Fortran software to solve actuarial problems. Performed data processing, analysis, validation, and reconciliation, and conducted experience studies. Modeled retirement benefits/liabilities and generated financial reports adhering to ERISA, FASB, GASB, & IAS19 standards.

Fun Projects

3D Minesweeper - See Profile link

Multiplayer Go - See Profile link

My first coding project - Assume role of financial derivatives market maker by web scraping data from Yahoo and public Yahoo API, and make trades according to Black Scholes model and delta hedged positions accordingly.

Education

App Academy | Full Stack Web Development

Society of Actuaries | Exam P, FM, MFE, MLC, Statistics, Finance, Accounting

University of Southern California | Bachelor of Arts in Economics, Music Performance, East Asian Languages/Culture