

Kevin Zhu

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Experience

Amazon Web Services

Software Development Engineer I

March 2022 – Present

- Designed, developed and launched new EC2 ReportInstanceStatus API, serving thousands of requests per day (https://docs.aws.amazon.com/AWSEC2/latest/APIReference/API_ReportInstanceStatus.html)
- Led initiative to reduce EC2 server impairment recidivism from 7% to 2% of total AWS fleet, with cost savings in the high tens of millions of dollars
- Identified and permanently resolved long-standing issue that impacted 42,000 EC2 instances per month on my own accord, receiving an accolade for my “customer obsession”
- Single-handedly launched critical EC2 infra services in 6 new AWS regions distributed across the globe
- Worked with Java, Lambda, Redshift, DynamoDB, CloudFormation and other AWS services

Software Development Engineer Intern

May 2021 – August 2021

- Created and deployed a new data visualization pipeline for server health signals to over 4 million servers worldwide, removing ~80% of the work typically needed to onboard new failure signals
- Automated creation of support tickets to relevant stakeholders when EC2 servers fail repeatedly
- Worked with Java, Kotlin, Kinesis, Redshift, DynamoDB, and Grafana

Bill.com | *Software Engineering Intern (Fullstack)*

June 2020 – January 2021

- Launched new Angular-based status page used by 70% of all Bill.com customers
- Constructed GraphQL layer to connect backend API to frontend using Apollo Server
- Developed API endpoints in Bill.com core product using Java to filter and sort bills and invoices
- Worked with TypeScript, Angular, Apollo, GraphQL

Codebase | *Project Manager*

January 2020 – December 2020

- Led team of 6 engineers to rebuild Aurora Solar’s admin platform, migrating from Ember to React
- Built full stack web application from scratch for Middesk using React, PostgreSQL and Ruby on Rails
- Configured backend to make POST requests to Middesk API and cache current session data via Redis

X-Matik | *“Full Stack” Engineering Intern*

May 2019 – August 2019

- Designed and tested PCBs used to enable self-driving in any vehicle
- Developed rigorous firmware testing suite in C to ensure component reliability and safety
- Rebuilt X-Matik web application to improve accessibility and functionality
- Automated vehicle telematics analysis procedure, reducing effort required by 80%

Education

University of California, Berkeley | *BA, Computer Science (3.6 GPA)*

December 2021

- **Relevant Coursework:** Database Systems, Operating Systems, Systems Security, Algorithms, Data Structures, Computer Architecture, Artificial Intelligence, Data Science

Skills

- **Languages:** Java, Python, Ruby, Go, C, Kotlin, JavaScript/TypeScript, SQL, HTML/CSS
- **Frameworks and Tools:** DynamoDB, S3, Redshift, CloudFormation, React, Angular, PostgreSQL