Calvin Ly

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EXPERIENCE

Software Development Engineer I Mar. 2022 – Present

Amazon Web Services *Palo Alto, CA*

- Implemented core product features using the latest front-end technologies, including React.js, Typescript, and AWS Cloudscape Design System, to enhance the user experience.
- Collaborated with the UX and PM team to release features for the new EMR Console, delivering high-impact updates to thousands of customers in various AWS regions.
- Contributed to a 30% increase in code productivity during the release of the new EMR Serverless platform, while also delivering results on time despite a tight deadline.
- Leveraged CI/CD pipelines to streamline and automate the deployment process, improving the reliability and control of releases across multiple waves.
- Developed and maintained comprehensive tests using Jest/React Testing Library for unit testing and Mocha/Puppeteer for integration testing.

Software Development Engineer I Aug. 2021 – Mar. 2022

Amazon *Seattle, CA*

- Reduced error rates of the NLU model by 12% through implementation of ASR N-best, a technique that leverages different hypotheses from speech recognition.
- Designed and developed an end-to-end pipeline featuring a CRON job and python script to automate data formatting for language engineers, improving efficiency by 85% and reduction in manual effort.
- Implemented AATS, an internal Alexa testing tool, to enable data scientists to easily conduct end-to-end tests and view results on a data analytics dashboard.

Software Development Engineer Intern May 2020 – Aug. 2020

Amazon *Remote*

- Designed and built an end-to-end model training pipeline to automate data training and optimize workflow, using Java, Python, and AWS services (CloudFormation, Lambda, S3, SNS, SQS, SES, and SageMaker).
- Worked closely with data scientists to achieve project goals and wrote documentation for long-term scalability.
- Integrated an open-source machine learning training script on AWS SageMaker to train and fine-tune models.

Software Engineer Intern Nov. 2018 – Aug. 2019

IpserLab *San Jose, CA*

- Worked collaboratively in a small team, utilizing Agile methodology to innovate and develop new ideas.
- Implemented a RESTful API to enable backend data communication for CRUD operations.
- Developed the front-end using HTML, CSS, Bootstrap, jQuery, and JavaScript.

PROJECTS

CmpEndium Feb. 2021 – May 2021

React, Node.js, Express.js, MongoDB, AWS S3, Puppeteer

- Led a team of four to design and build a full stack job application that allows users to track their job status, manage resumes, and collectively display various job listings.
- Designed a multi-threaded web scraping solution to overcome a challenge in accessing job data through limited APIs, enabling us to efficiently gather and display job information from multiple sources.
- Developed a robust and scalable backend system, leveraging Node.js to streamline our web scraping logic and facilitate efficient handling of user requests and responses.

EDUCATION

San Jose State University Aug. 2017 – May 2021

Bachelor of Science in Computer Engineering *San Jose, CA*

- GPA: 3.8/4.0, Dean's Scholar

SKILLS

Languages: JavaScript, TypeScript, Python, Java, HTML/CSS
Libraries/Frameworks: React, Node.js, Flask, React Testing Library, Jest, Mocha, Chai, Puppeteer
Other: AWS, Git, Figma, SQL, Firebase, MongoDB