

JASON LAU

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SKILLS

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| Languages | Python, Java, JavaScript, TypeScript, C/C++, HTML/CSS, SQL |
| Frameworks | Java Spring, React, Node.js, Express, Electron, NumPy, pandas, Flask, Tailwind |
| Tools | Git, Linux, AWS Lambda, CDK, SQS, Amazon S3, EC2, Docker, Kubernetes |

WORK EXPERIENCE

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| Amazon Software Development Engineer | Feb 2022 - Present |
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- Developed across several RESTful microservices with **Java Spring**, enabling users to create, edit, and distribute content across the Amazon platform in over 10 different marketplaces
- Led the refactoring and ownership transfer of idea lists to the content publishing team, increasing total content published by 86%
- Spearheaded development on a full-stack solution for a centralized influencer content management platform
- Architected the backend for numerous new features to idea lists including draft support and autosave functionality while simultaneously cutting p90 retrieval latency by 40%
- Implemented UX features across desktop, Android, and iOS platforms using **React Native**, including more extensive product tagging options and easier reordering of product lists
- Migrated several of our CI/CD pipelines and other cloud resources to use AWS CDK, streamlining the process of developing infrastructure for our services
- Collaborated with partner teams to integrate our new features across the Amazon website, contributing to an overall 22% increase in traffic to our tools

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| Amazon Software Development Intern | May 2021 - Aug 2021 |
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- Designed and implemented an internal resource management dashboard in **Typescript** and **Python** for field engineers and network operation team members to rapidly retrieve FireTV health metrics
- Created an ETL pipeline for consuming FireTV data sets using **Python**, **SQL**, AWS Lambda, AWS IoT Analytics, Amazon S3, and Amazon Timestream, helping lower debugging time by 75%
- Defined serverless APIs to query Amazon Timestream using API Gateway and AWS Lambda, enabling other teams to fetch relevant FireTV metrics
- Helped in refactoring internal web portal to use micro-frontend architecture and developed highly reusable frontend components, reducing development time by 40%

EDUCATION

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| University of Southern California BS in Computer Science | Aug 2018 - Dec 2021 Honors: <i>Magna Cum Laude</i> |
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Courses: Algorithms, Computer Architecture, Operating Systems, Networking, Machine Learning, AI

PROJECTS

Audio Redaction Tool TypeScript, Electron, Node.js, React.js

- Worked with the Los Angeles County District Attorney's Office to create a redaction tool for over 1000 hours of court recordings and transcripts as part of a senior capstone project
- Used **Node.js**, **Electron**, and FFmpeg to streamline the audio redaction and transcript editing processes