

Sean Lam

(909)-570-7500 • imseanlam@gmail.com • seanlam8.github.io • linkedin.com/in/sean-h-lam

Skills

Java, C#, Python, Go, JavaScript, React.js, SQL, AWS, Terraform, Kubernetes, Docker, Drone, Argo, Datadog, Sumologic, GitHub, Jira

Experience

Software Engineer | The New York Times Apr. 2023 - Present

- Develop efficient metrics-based scaling solution leveraging Keda, Prometheus, and AWS Lambda to proactively scale applications, eliminating high latency during sudden traffic surges
- Improve pod start up time by 87% through cluster control plane hardening during elections readiness effort
- Create and maintain Terraform modules for RDS, ElastiCache, and Private Link, standardizing best practices across dozens of teams
- Streamline AWS SSO integrations across 200 AWS accounts, enabling custom IAM permissions through Azure AD group authentication
- Maintain shared Kubernetes clusters across all environments, performing updates, cleaning up tech debt, and improving deployment patterns to modernize pipelines
- Collaborate with cross-functional teams to identify scaling issues and implement solutions, ensuring seamless integration and alignment across departments

Software Engineer II | Rev.com Aug. 2021 – Oct. 2022

- Owned and implemented Language Identification API to detect most probable language being spoken in audio
- Developed and scaled a cloud-hosted microservice using AWS SQS for scalable and reliable communication
- Collaborated with Product Managers to design and ship features in all states of the product lifecycle to satisfy customer demands
- Contributed to comprehensive unit and integration test suites to ensure reliability, functionality, and quality
- Documented API specifications to streamline integration processes, enhance communication, and boost adoption
- Lead cost reduction efforts to slash overhead by 60% by re-allocating resources used for EC2 and ElastiCache
- Maintained scalability of API's using distributed systems and services such as DynamoDB, S3, EC2, SQS

Software Engineer Intern | Rev.com Jun. 2021 – Aug. 2021

- Designed and launched features allowing seamless API access token rotation, improving platform security
- Enhanced user experience flow by improving interface for creating, deleting, and regenerating tokens
- Built customer-facing UIs in scalable React web application and took initiative to surface and fix existing flaws
- Practiced Agile methodology to promote iterative development and ensure alignment in response to changing requirements

Software Engineer Intern | Anytrek Corporation Jun. 2019 - Aug. 2019

- Developed an order handling system using MVC architecture, ensuring separation of concerns, modularity and maintainability
- Built responsive frontend web UIs, RESTful backend APIs, and database schemas to optimize data flow

Projects

Academic World Dashboard Apr. 2024

- Built a web app dashboard that integrates with SQL, NoSQL, and GraphQL databases, helping graduate students find and track suitable research institutions and faculty advisors

Education

University of California, Berkeley Aug. 2017 - May 2021

Bachelor of Science – Electrical Engineering and Computer Science | Regents' and Chancellor's Scholar

University of Illinois at Urbana Champaign Aug. 2023 - Present

Master of Computer Science

Certifications

AWS Certified Cloud Practitioner Jun. 2024 - Jun. 2027