

# Sean Lam

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## Skills

C#, Java, JavaScript, Python, C, C++, Node.js, SpringBoot, HTML, CSS, Microsoft SQL Server, DynamoDB, React.js, Vue.js, .NET, AWS, Terraform, Unix/Linux, CI/CD, Jenkins, Git/Github, ElasticSearch, Docker, Jira, Confluence, Microsoft Office Suite, Communication, Teamwork, Adaptability, Time Management, Leadership

## Experience

### Software Engineer | Rev.com

Aug. 2021 – Oct. 2022

- Secured new customers by building Language Identification API to detect most probable language being spoken in audio and top 4 alternatives
- Developed, scaled, and configured cloud-hosted microservice leveraging AWS SQS for dependable messaging
- Coordinated with Product Managers to design and ship features in all states of the product lifecycle to satisfy customer demands
- Expanded services in emerging regions by deploying features and API offerings via AWS Cloudformation, Docker, and CI/CD pipelines in new EU deployment to reach feature parity with US deployment
- Lead cost reduction efforts to slash overhead by 60% by re-allocating resources used for cloud services
- Maintained scalability of API's using distributed systems and services such as DynamoDB, S3, Redis, EC2, SQS
- **Tools:** .NET, C#, JavaScript, React.js, Microsoft SQL Server, Docker, AWS, Terraform, Jenkins

### Software Engineer Intern | Rev.com

Jun. 2021 – Aug. 2021

- Launched features and designed database schema to allow users to seamlessly rotate API access tokens
- Enhanced user experience flow by improving interface for creating, deleting, and regenerating tokens
- Terraformed and deployed environment for training AI models on consistent stream of real world data, achieving increased overall accuracy of model by over 7%
- **Tools:** .NET, C#, JavaScript, React.js, Microsoft SQL Server, AWS, Terraform, Jenkins

### Full Stack Engineering Intern | Anytrek Corporation

Jun. 2019 – Aug. 2019

- Streamlined business processes by automating orders and payments through online portal
- Implemented core functionality of the Internal Management System including order and invoice handling
- Utilized modern frameworks to create a more versatile and interactive user experience
- **Tools:** Java, SpringBoot, Vue.js

## Projects

### Discord Profanity Filter Bot

Dec. 2022 – Present

- Automated moderation in high traffic text channels with customizable discord profanity filtering bot
- Utilized Node.js, JavaScript, and object-oriented discord.js node modules to interact with Discord API

### Pintos

Feb. 2021 – May 2021

- Expanded existing Pintos operating system by designing and building new functionality such as processing user programs, system calls, priority scheduling of threads, and an efficient file system using C
- Facilitated efficient collaboration and teamwork by organizing responsibilities and communication within a team

### MOOCbase

Sep. 2020 – Nov. 2020

- Developed a functioning relational database using Java and knowledge gained from Database Systems course
- Implemented various parts of a database such as B+ trees, Relational Algebra, Join Algorithms, Query Optimization, Concurrency

## Education

### University of California, Berkeley | Berkeley, California

Aug. 2017 - May 2021

**Bachelor of Science** – Electrical Engineering and Computer Science | Regents' and Chancellor's Scholar | 3.41 GPA

**Relevant Coursework** – Structure and Interpretation of Computer Programs, Data Structures, Computer Architecture and Machine Structure, Algorithms, Discrete Mathematics and Probability, Database Systems, Operating Systems and System Programming, Computer Security