

Eric Li

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in ericli1234

🐧 ThePenguinCo

Technical Skills

- **Languages:** Java, Python, Go, C++, SQL, JavaScript, TypeScript, HTML, CSS
- **Libraries and Frameworks:** ReactJS, NodeJS, Spring, Mockito
- **Tools:** AWS, Kubernetes, Docker, Snowflake, MySQL, MongoDB, Bash, Git, Jenkins, Terraform, Linux

Experience

Software Engineering Intern

May 2020 – Nov 2020

Lacework Inc. | Remote

- Implemented database optimizations including materialized views and marker tables for security vulnerability data to reduce expensive queries, saving the company an estimated \$1.5M per year
- Designed queue abstractions for a distributed scalable job scheduler in Go to enable horizontal scaling and report the internal state and job statistics of individual scheduler instances
- Created a high-performance concurrent queue loader microservice that processes messages from SQS queues and loads JSON file data from Amazon S3 into Snowflake databases

Founder

Dec 2019 – Apr 2020

Hyperdoc Inc. | Sunnyvale, CA

- Founded a Y Combinator (W20 batch alumni) backed developer tool startup that helps software teams and open source project contributors create better documentation and onboarding materials
- Engineered the backend server in Python (Flask) and wrote a VS Code extension in TypeScript

Software Engineering Intern

Sep 2019 – Dec 2019

Lacework Inc. | Mountain View, CA

- Created a UI tool in Java to compare cloud security datasets via data visualization models and graphs
- Engineered an extensible API based testing framework in Java to schedule and run tests for data pipeline microservices, utilizing Docker and Kubernetes
- Devised an algorithm to resolve function dependencies for a custom query language translator

Software Developer Intern

Jan 2019 – Apr 2019

Nuance Communications | Montreal, QC

- Implemented bug fixes and new features in a virtual assistant editor stack made with Java Spring
- Built unit tests using Mockito in a test-driven development environment to improve code quality
- Constructed Jenkins/GitLab pipelines to schedule builds and execute unit tests and source code scans

Projects

Ping Lite

Apr 2020

- Created UNIX ping utilities in Go and C++ that sends ICMP echo requests with IPV4 and IPV6 support

Options Calculator

Mar 2020

- Developed an options pricing estimate calculator using Black-Scholes model approximation in Python and designed a web application in ReactJS to show the data

Hear My Prof | McHacks 6

Feb 2019

- Created an English speech to text transcription app for Android in Kotlin, leveraging the Google Cloud Platform API; won first place out of 150+ teams for the best educational application

Education

University of Waterloo

2018 – 2022 (Expected)

Honors Bachelor of Applied Science (Computer Engineering) Co-op

GPA: 3.9

Relevant Coursework: Data Structures and Algorithms, Numerical Methods, Linear Algebra, Advanced Probability