

# Ivan Lee

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## PROFILE

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I'm a full-stack software engineer with multiple years of experience in the JavaScript ecosystem. Over the past 2.5 years, I've built a solid foundation in web engineering fundamentals. Most recently I co-created Embrasure, an open-source secrets manager using Node.js, AWS, and PostgreSQL.

## SKILLS

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### Back-End

Node.js, Express, Golang, SQL (PostgreSQL), MongoDB, REST APIs

### Front-End

JavaScript (ES6+), React, jQuery, Pug, Handlebars, HTML/CSS

### Cloud

DigitalOcean, AWS (RDS, API Gateway, IAM, Lambda, CloudWatch)

### Other

Git, GitHub, HTTP, Jest, Nginx, Postman

## PROFESSIONAL EXPERIENCE

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### Co-Creator & Software Engineer

2023 - present

*Embrasure* - <https://embrasure-secrets.github.io/> 📄

Embrasure is an open-source, self-hosted secrets manager for small teams that securely stores and injects secrets for Node.js applications.

- Prototyped and built Embrasure using Node.js and Amazon Web Services (RDS for PostgreSQL, API Gateway, Lambda, IAM)
- Used AWS RDS, Lambda, and the Serverless framework to implement encryption-at-rest and encryption-in-transit for secure secret storage and secret injection.
- Implemented PostgreSQL database authentication using dynamically generated AWS IAM auth tokens, AWS IAM policies, and database-level permissions.
- Configured a CLI to communicate with a RESTful API server with commands to manage secrets/users.
- Engineered middleware to process requests, verify authenticity and authorization through AWS IAM, create audit logs of all requests, and connect to a secure PostgreSQL database.
- Collaborated daily with a remote team of engineers using an agile workflow, which included daily stand-ups, weekly sprints, and code reviews.
- Authored an in-depth technical case study 📄 that outlined the process, research, architecture, and tradeoffs of Embrasure. <https://embrasure-secrets.github.io/> 📄

### Software Engineer

2021 - 2023

*Self-Employed*

Developed various personal and open-source web applications.

- RequestBin Ultra: A tool for inspecting webhooks and HTTP requests. (Nginx, Node.js, Express, MongoDB, PostgreSQL, DigitalOcean Droplet)
- Pioneers of Computer Science: CRUD app for viewing and storing notable computer scientists of history (Node.js, Express, PostgreSQL, Pug)
- Crypto News Aggregator: Web app that scraped various news sites, Twitter, and YouTube, and aggregated and displayed the top news stories. (React, Cheerio, Node.js, Express, MongoDB)

## EDUCATION

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### Launch School

Multi-year, mastery-based software engineering curriculum. Read more at [launchschool.com/employers](https://launchschool.com/employers) 📄

### Master of Fine Arts, Industrial Design

*Academy of Art University*

### Bachelor of Science, Biological Sciences

*University of California, Davis*