# Allen Lee

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## 🪪 PROFILE

I'm a full stack software engineer with extensive experience in the JavaScript ecosystem, and proficiency in TypeScript and Go. I'm passionate about the digital space and the intersection between art and technology.

## 💼 EXPERIENCE

**Founding Backend Engineer,** *Stealth Startup*                                    August 2024 – March 2025

Operated as the sole backend engineer at a pre-seed stealth startup.

- Architected and managed the backend infrastructure on AWS, leveraging ECS Fargate, RDS PostgreSQL, and S3 for scalable and secure cloud-based solutions.
- Optimized API performance and reduced response times by 40% through query optimizations and caching strategies (Redis, AWS CloudFront, PostgreSQL).
- Supervised AWS infrastructure costs, reducing cloud expenses by 20% through data migrations, resource storage optimizations, and serverless architectures (AWS S3, AWS API Gateway, Lambda).
- Designed the database schema and implemented efficient data models to handle user authentication, business logic, and data indexing for performance optimization.
- Integrated third-party APIs (Diffbot AI, getimg.ai) to automate large-scale data extraction and streamline internal workflows.
- Collaborated closely with the founder to translate business requirements into scalable product features and rapidly iterate based on customer feedback.

**Co-creator, Software Engineer,** *Campfire* 🔗                                    January 2024 – August 2024

Campfire is a self-hosted, CI/CD development framework that deploys dedicated preview environments with integrated collaboration tools on AWS.

- Engineered Campfire's CLI, which automates the deployment and teardown of AWS cloud infrastructure (ECS Clusters, Application Load Balancer, Lambdas, S3, Secrets Manager), reducing a 40-step workflow to one command.
- Developed a Software Development Kit (SDK) for Campfire to implement session replay functionality through inter-iframe communication.
- Architected and implemented RESTful API facilitating serverless backend communication (AWS API Gateway, Lambda, Secrets Manager).
- Authored a comprehensive case study 🔗 providing an in-depth analysis of Campfire's problem domain, system design, and engineering decisions.

## 📁 PROJECTS

**Rainbucket** 🔗

A web development tool to inspect and debug webhook integrations at real-time (React, Express, Node.js, MongoDB, PostgreSQL, Nginx, Digital Ocean, WebSockets)

**Colors** 🔗

A color-based art filtering application utilizing The Art Institute of Chicago's open-source API (Pug, Express, Node.js)

## 🧠 TECHNICAL SKILLS

**Front End**
JavaScript (ES6+), TypeScript, React, GSAP, jQuery, Material UI, Handlebars, Pug, HTML/CSS

**Back End**
Node.js, Express, GoLang, PostgreSQL, MongoDB, REST APIs

**Cloud**
AWS (ECS, ELB, Lambda, CloudFormation, S3, IAM), Digital Ocean, Heroku, Fly.io, VPCs

**Other**
Git/GitHub, Docker, Linux, Bash, WebSockets, HTTP, Jest, Cypress, OOP, Nginx, Postman

## 🎓 EDUCATION

**Launch School**                                    2022 – 2024 | Online

Multi-year, mastery-based software engineering curriculum. Read more at launchschool.com/employers 🔗

**New York University**                                    2019 – 2020 | New York

Completed coursework in Computer Science and Mathematics