Stone Liu

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EDUCATION

Northeastern University   Boston, MA
Honors Bachelor of Science in Computer Science and Mathematics (GPA: 3.835/4.0)   *Expected May 2026*

TECHNICAL SKILLS

Languages: TypeScript/JavaScript, Python, Go, Java, C, C++
Technologies: Vim, Git, Docker, React, PostgreSQL, MongoDB, PostGIS, Temporal, Redis, AWS (S3, Lambda, EC2)

EXPERIENCE

Member of Technical Staff   January 2026 - Current
Agency - Series A   *New York City, NY*

- Built Temporal workflows for async scheduling and event triggers, integrating Slack and Outlook to automate notifications for **50+** customers.
- Deployed streaming agent job previews using Redis + React Server-Sent Events (SSE), providing customers live notification generation and status overviews.
- Created reusable React hooks with tRPC, Zod, and OpenAPI codegen to standardize client APIs and simplify data fetching.

Software Engineer Co-Op   January 2025 - June 2025
Morse Corporation   *Cambridge, MA*

- Implemented an F1-score tracking metric for the object detection evaluation pipeline in C++, improving stakeholder visibility into model regressions.
- Built a scalable test harness with Apache Spark to process **100M+** evaluation records in parallel, increasing pipeline reliability.
- Deployed containerized model runners and inference pipelines with OpenCV + Polars, reducing metric turnaround time for model evaluations.

Software Engineer Co-Op   January 2024 - August 2024
Spill Center   *Boston, MA*

- Designed a web application using Nuxt.js and MongoDB, enabling customers to view detailed reports across **100,000+** cargo tanks.
- Implemented a geospatial alert service using PostGIS spatial queries, enabling triage of **1,000+** incidents within alert groups.
- Created reusable Vue.js dashboard components allowing **100+** contractors access to detailed spill incident reports.

PROJECTS

Generate Technical Challenge Server | *Go, TypeScript, Docker, PostgreSQL*   November 2025 - December 2025
- Delivered a challenge server using **Go** and **PostgreSQL** handling over **200+** member registrations, and **3,800+** challenge generations/submissions.
- Engineered a deterministic test case generator seeded by user IDs, with scoring/validation logic and property-based testing, allowing accurate and efficient autograding of member submissions.
- Set up production and development pipelines: Using OpenAPI codegen for API type-safety, containerized database for integration testing, and Slack webhook middleware for operational visibility.

Dearly | *TypeScript, React Native, Docker, AWS S3/Lambda, PostgreSQL*   December 2024 - April 2025
- Built a private family-sharing mobile app with media upload + feed experiences, designed to keep families connected across generations.
- Deployed CI/CD pipelines through GitHub Actions, automating over **500+** integration tests written with Jest and containerized deployments using Docker.
- Cached API requests using TanStack-Query and compressed image/audio content through Sharp.js, leading to an **80%** decrease in API calls and **50%** faster loading times.