

# Stone Liu

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## EDUCATION

### Northeastern University

Boston, Massachusetts

*Candidate for Honors Bachelor of Science in Computer Science and Mathematics*

*Expected May 2026*

- **GPA:** 3.79 / 4.00
- **Awards:** Northeastern Honors Program, Deans List

## TECHNICAL SKILLS

**Languages:** TypeScript/JavaScript, Python, Java, C, C++, SQL, Bash

**Technologies:** Nvim/Vim, Docker, Git, AWS S3 & Lambda, Nix

**Frameworks/Libraries:** PySpark, Pandas, Polars, React.js, React-Native, Next.js, Vue.js, Nuxt.js

## EXPERIENCE

### Software Engineer Co-Op

January 2025 – Present

*Morse Corporation*

*Cambridge, MA*

- Built core infrastructure for data analysis pipelines aimed at algorithmic testing and evaluation of object detection models.
- Designed a scalable test harness using **Apache Spark**, supporting parallel data processing on **100 million+** metrics giving team members insights into model performance.
- Deployed model runners and inference processing pipelines with **OpenCV**, automating metrics for multiple vendors and reducing metric turnaround time by over **50%**.

### Technical Lead

September 2024 – April 2025

*Generate Product Development Studio*

*Boston, MA*

- Led a team of 7 engineers, designing containerized **RESTful** web server applications through the OpenAPI specification.
- Designed a distributed web server that supported multimedia compressing/serving through **AWS S3** and push notifications using **AWS Lambda**.
- Enabled real-time notification services through **Supabase** database subscribers and designed type-safe database transactions with **Drizzle-ORM**.

### Lead Lab TA – Fundamentals of Computer Science I

September 2024 – December 2024

*Khoury College*

*Boston, MA*

- Helped **600+** introductory computer-science students by teaching systematic program design with topics including structural recursion and accumulators using Racket ISL.

### Software Engineer Co-Op

January 2024 – August 2024

*Spill Center*

*Hudson, MA*

- Created a centralized web application for cargo tank owners and operators using **Nuxt.js**, enabling customers to view detailed reports on over **800,000+** cargo tanks.

## PROJECTS

### Dearly | *TypeScript, React-Native, Docker, AWS S3/Lambda, PostgreSQL*

- Dearly is a private family-sharing app bridging generational gaps and makes staying connected easier and more meaningful.
- Deployed CI/CD pipelines using **Github Actions**, automating over **500+** integration tests written using **Jest** and containerized deployments through **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.

### Fluid-OAS | *TypeScript*

- *Fluid-OAS* is a declarative *domain specific language* expressing type-safe HTTP APIs through the OpenAPI specification.
- Created a fluent, object-oriented interface allowing developers to repeatedly chain together methods, enabling for more maintainable API specifications.
- Maintained backwards compatibility between all OpenAPIv3 specifications through interface segregation, providing support for more than **1800** developers on npm.