

# Stone Liu

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## EDUCATION

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### 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

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**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

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### 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 enabling team members critical insights on model performance.
- Deployed model runners and inference processing pipelines using **OpenCV**, automating metric calculations for multiple vendors and reduced 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** server applications using the OpenAPI specification.
- Designed a distributed web server that supported multimedia compressing/serving through **AWS S3** and scheduled push notifications through **AWS Lambda**.
- Enabled real-time notification services through **Supabase** database subscribers and designed type-safe database transactions using **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

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### 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 using **Jest** and containerized deployments through **Docker**.
- Cached API requests using **TanStack-Query** and compressed image/audio content through **Sharp**, leading to an **80%** decrease in API requests and **50%** faster loading times.

### Fluid-OAS | *TypeScript*

- *Fluid-OAS* is a declarative *domain specific language* expressing type-safe HTTP APIs using the OpenAPI specification.
- Created a fluent, object-oriented API allowing developers to repeatedly chain together methods, enabling more maintainable API specifications.
- Maintained backwards compatability among all OpenAPIv3 specifications through interface segregation, supporting **1500+** developers.