

STONE LIU

617-792-6757 | liu.sto{at}northeastern{dot}edu | linkedin/stone-liu | stoneliucs.github.io | github.com/stoneliuCS

EDUCATION

Northeastern University

Boston, Massachusetts

Candidate for Honors Bachelor of Science in Computer Science and Mathematics

Expected May 2026

- GPA: 3.80 / 4.00

TECHNICAL SKILLS

Languages: TypeScript/JavaScript, Python, Go, Java, C++, C

Technologies/Frameworks: Vim, Docker, Git, React.js, AWS S3 & Lambda, Apache Spark & Maven

EXPERIENCE

Chief Software Engineer

June 2025 – Present

Generate Product Development Studio

Boston, MA

- Designed a containerized challenge server using **Go** and **PostgreSQL**, efficiently autograding technical challenges for over **200+** prospective software engineers.
- Created a centralized CI/CD platform with **Docker** and reusable **GitHub Actions** used by 4 teams, standardizing releases for **30+** software engineers.
- Led infrastructure integrations with **AWS S3 & Lambda** using **Boto3** enabling organization wide access through least privilege **IAM** policies and roles.

Software Engineer Co-Op

January 2025 – June 2025

Morse Corporation

Cambridge, MA

- Implemented a F-score based tracking metric for object detection models in **C++**, giving stakeholders faster insights into model performance.
- Designed a scalable test harness with **Apache Spark**, supporting parallel data processing on **100 million+ metrics**, increasing pipeline reliability.
- Deployed containerized model runners and inference processing pipelines using **OpenCV** and **Polars**, accelerating metric turnaround time by over **50%**.

Technical Lead

September 2024 – April 2025

Generate Product Development Studio

Boston, MA

- Led an **agile** team of 7 software engineers, designing a containerized **RESTful** web backend and **IOS** mobile application using **React-Native**.
- Implemented server-side features that supported media compression and serving through **AWS S3** and increased app engagement with scheduled nudges using **AWS Lambda**.
- Enabled real-time notification services through **Supabase** database subscribers and designed type-safe database transactions using **Drizzle-ORM**.

Software Engineer Co-Op

January 2024 – August 2024

Spill Center

Hudson, MA

- Designed a web application for cargo tank owners using **Nuxt.js** and **MongoDB**, enabling customers to view detailed reports on **800,000+** cargo tanks.
- Created reusable dashboard components written in **Vue.js**, allowing **3000+** contractors access to detailed spill incident reports.
- Monitored **10,000+** incidents within alert groups by implementing a geospatial alert service through **PostGIS** spatial queries.

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 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.