STONE LIU

617-792-6757 | liu.sto@northeastern.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, EC2, IAM), Apache (Spark, Maven)

EXPERIENCE

Member of Technical Staff January 2026 – Present
Agency - Sequoia Capital, Databricks Ventures *New York City, NY*
Chief Software Engineer June 2025 – Present
Generate Product Development Studio *Boston, MA*
- Designed a containerized challenge server in **Go** with **PostgreSQL** to auto-grade technical challenges for **200+** prospective 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 F1-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%**.

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.

Bazaar | *Java, Apache Maven, Bash, Google Gson*
- Created a distributed trading card game using **Apache Maven**, where player mechanisms connect over **TCP/IP** sockets.
- Developed a backtracking algorithm that efficiently searched through millions of candidates using DFS and data accumulators.