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:** 3.80 / 4.00

TECHNICAL SKILLS

Languages: TypeScript/JavaScript, Go, Python, Java, C++, C
Technologies/Frameworks: Vim, Docker, Git, React.js, Vue.js Apache Spark & Maven, AWS S3 & Lambda

EXPERIENCE

Chief Software Engineer   June 2025 – Present
Generate Product Development Studio   *Boston, MA*
- Designed a distributed, containerized challenge server using **Go** and **PostgreSQL**, facilitating the autograding of technical challenges for over **100+** 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.
- Built **AWS** infrastructure using **Boto3** enabling **4** teams access to **S3 and Lambda** through least privileged IAM policies.

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 server application through the **OpenAPI** specification.
- Implemented a web server that supported multimedia compressing/serving through **AWS S3** and scheduled push notifications 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.