

NATHANIEL WETZEL

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EDUCATION

Northeastern University

Boston, MA

Bachelor of Science in Computer Science

Grad Date: May 2027 | *GPA:* 3.75

Coursework Object-Oriented Design, Algorithms and Data, Computer Systems, Fundamentals of Computer Science I & II, Cloud Computing, Discrete Structures

EXPERIENCE

Amazon

Present

Software Development Engineer Intern

Seattle, WA

Wolters Kluwer

Jan. 2025 – Jun. 2025

Software Engineer Intern

Waltham, MA

- Migrated clinical NLP service to a **Python** microservice on **Azure Kubernetes**, containerized with **Docker** to enable processing of **70MB+ dosing data** and downstream follow-on service migrations.
- Developed a patching tool using **Ansible** for Windows/Linux and automated lifecycle actions via **Jenkins**, spearheading patching across **100+ hosts**.

Amazon

May 2024 – Aug. 2024

Software Development Engineer Intern

Seattle, WA

- Designed a metric aggregation and alerting service for **100K+ invoices/month**, enhancing on-call visibility, enabling early delay detection, and ensuring SLA-compliant delivery to dependent services.
- Implemented Lambda functions in **Java** and **Python** to retrieve metrics from **Elasticsearch**, upload to **CloudWatch**, and dispatch team-wide notifications.
- Deployed an IaC **CDK** module to deploy services in a **VPC**, integrating **Dagger** for secure operations.

PROJECTS

NDVI Compare

Apr. 2025 – Jun. 2025

- Built a **FastAPI** backend to visualize changes in satellite imagery from **Google Earth Engine**, enabling detection of deforestation and other landscape changes over time.
- Supported async access, cloud masking, secret mounting, and reproducible deployment using **Docker**.

TECHNICAL SKILLS

Programming Languages

Java, Python, TypeScript, JavaScript, SQL (Postgres), HTML/CSS

Frameworks & Technologies

Git, Docker, Kubernetes, Jenkins, AWS, Azure, Linux