

NATHANIEL WETZEL

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Availability: Jan – Jun 2025

EDUCATION

Northeastern University | Khoury College of Computer Sciences

Sep 2023 – Present

Candidate for Bachelor of Science in Computer Science

Boston, MA

Honors: GPA: 3.6/4.0 | Dean's List | Amazon Future Engineer Scholarship | Elk's Most Valuable Student Scholarship

Relevant Courses: Fundamentals of Computer Science I & II, Object-Oriented Design, Mathematics of Data Models, Cloud Computing, Foundations of Data Science

TECHNICAL SKILLS

Languages: Java, Python, Intermediate Student Language (Racket), HTML5, CSS

Developer Tools: Git, Amazon Web Services, AWS Cloud Development Kit (CDK), AWS Lambda, Gradle, JUnit, Dagger, Linux, Pandas, Matplotlib, Hashcat, LaTeX, IntelliJ IDEA

Skills: Software Development Life Cycle (SDLC), Object-Oriented Design (OOD), Cloud Computing, Version Control with Git, Testing and Debugging, Technical Writing

EXPERIENCE

Amazon

May 2024 – Aug 2024

Software Development Engineer Intern

Seattle, WA

- Designed and implemented a scalable metric aggregation and notification service to track the status, completeness, and estimated completion time for processing over 100k+ invoices monthly.
- Built two AWS Lambda functions in Java, utilizing Elasticsearch, CloudWatch, and EventBridge for real-time metric collection and automated notifications.
- Developed an infrastructure-as-code module using Amazon CDK for deploying the Lambda service within a VPC, integrating Dagger for secure and efficient operations.
- Immediately enhanced engineering on-call visibility and responsiveness by utilizing the service to effectively resolve a high-severity incident, preventing future disruptions and ensuring timely invoice rendering and delivery.

Association for Computing Machinery

Jan 2024 – April 2024

Founding Member

Boston, MA

- Secured club chartering by defining the club's goals for Northeastern's Center for Student Involvement (CSI).
- Created plans to improve student connectivity by increasing opportunities in computing, including research, projects, jobs, and hackathons, to build a stronger community at Northeastern University's Khoury College.

Amazon

Jul 2022 – Jul 2022

Extern

Seattle, WA

- Selected for the Amazon Career Launch program, with a competitive acceptance rate of 40 out of 140 students.
- Developed technical skills in programming, Amazon Web Services, Internet of Things, and cloud computing.
- Gained insights into Amazon's culture, strategies for success in corporate environments, and diverse career paths.
- Nominated to present my final project to peers, Seattle Public Schools superintendent, and Amazon engineers, in front of an audience of 100; awarded a Certificate of Excellence, with 3 of 15 presenters recognized.

PROJECTS

Minesweeper | Java

April 2024

- Developed a Minesweeper game using Java with Javalib for graphical interface and world management, implementing random number generation for mine placement, and breadth-first search for flood-filling behavior.

TextExcel | Java

May 2022

- Developed a text-based spreadsheet software in Java with a user-friendly command-line interface for creating, editing, and managing spreadsheets.
- Added a built-in help guide and implemented support for arithmetic formulas in both single cells and cell ranges.

INTERESTS

Cybersecurity, Following AI Advancements, Machine Learning, Health, Traveling, Backpacking in the Pacific Northwest, Fashion