

Natalia Ivanov

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Availability: August - December 2025 | [LinkedIn](#) | [Portfolio Website](#) | Active TS/SCI Clearance

EDUCATION

Northeastern University - Khoury College of Computer Sciences

Sep 2022 - Expected May 2026

Candidate for Bachelor of Science in Computer Science

Boston, MA

- **GPA:** 3.7/4.0, Dean's List Recipient
- **Relevant Coursework:** Object-Oriented Design, Algorithms & Data, Computer Systems, Database Design, Web Development, Network Fundamentals, Mathematics of Data Models
- **Activities:** NU Women in Tech, NU SGA, Husky Hackathon, Minor in International Affairs

SKILLS & KNOWLEDGE

Programming: Java, JavaScript, HTML, CSS, TypeScript, Python, SQL, C#, VB.NET, Swift

Tools/Applications: React, Nest.js, Flask, Docker, AWS, Jenkins, IntelliJ, VS Code, XCode, Github

Languages: English, Russian, Spanish

EXPERIENCE

Riverside Research

July 2024 - December 2024

Software Engineer Co-op

Centreville, VA

- Contributed to the full software development life-cycle, utilizing C# and VB.NET to develop new features and deployed them using Jenkins pipelines, ensuring reliable releases and smooth user experience.
- Improved query performance by 18% by optimizing database functions to support new features, significantly reducing data retrieval times while ensuring seamless SQL integration with existing datasets.

Student Government Association of Northeastern University

February 2024 - Present

Technical Lead & Software Engineer

Boston, MA

- Led a team of 5 engineers in developing a senator nomination and application website to support over 15,000 Northeastern students and 500+ SGA members, managing weekly Agile sprints, creating development tickets, conducting peer reviews, and ensuring timely delivery.
- Designed and implemented the site using TypeScript, React, HTML, CSS, NestJS, and a Supabase backend, then deployed the platform with Docker pipelines to ensure functionality and scalability across environments.

Khoury College of Computer Sciences

August 2023 - December 2023

Teaching Assistant for Fundamentals of Computer Science 1

Boston, MA

- Conducted 4 hours of weekly office hours to assist students in understanding complex computer science concepts, demonstrating strong communication skills by providing clear explanations and guidance to enhance learning.
- Debugged code for students, enhancing their problem-solving skills and reinforcing programming principles.
- Graded assignments for 250+ students, ensuring fair and constructive feedback to support student learning and development in topics such as recursion, abstraction, testing, and design with data.

PROJECTS

[Github Repos](#)

No Show App (In progress) | Swift, XCode

- Designed and developed an iOS app in Swift to help users avoid no-show or cancellation fees for workout classes by allowing them to upload classes they cannot attend, enabling others to take their spot.
- Led all aspects of development, including UI/UX design, backend integration, and testing.

Bill Splitter Website | Python, HTML, CSS, AWS EC2, Flask

- Created a Python script that accurately and efficiently calculates individual meal costs based on dishes ate and/or split, efficiently distributing tax and tip proportions among group members for fair expense allocation.
- Adapted the script into a user-friendly web application using Flask, integrated HTML for enhanced user interaction and interface, and deployed on AWS EC2 to ensure scalability and accessibility.

Hexagonal Reversi | Java, Java Swing, IntelliJ

- Developed a Hexagonal Reversi game in Java, utilizing Object-Oriented Programming principles and a Model-View-Controller architecture to create a scalable and maintainable codebase that is thoroughly tested.
- Implemented a user-friendly interactive GUI that accommodates both mouse and keyboard inputs, allowing two players (human or AI) to engage in a dynamic gaming experience.

INTERESTS

Hiking, Strength Training, Baking, Video Games, Pottery, Sneakers, Travel