

Natalia Ivanov

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Availability: May - December 2025 | <https://www.linkedin.com/in/natalianivanov/> | 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: 3.8/4.0, Dean's List Recipient
- Relevant Coursework: Object-Oriented Design, Algorithms & Data, Computer Systems, Database Design, Mathematics of Data Models, Discrete Structures, Foundations of Cybersecurity
- Activities: Husky Hackathon, HackBeanpot, NU Women in Tech, NU SGA, Minor in International Affairs

SKILLS & KNOWLEDGE

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

Technical Applications: IntelliJ IDEA, Visual Studio Code, Git/Github, Linux, Flask, AWS, Jira, Confluence

Languages: English, Russian, Spanish

PROJECTS

<https://github.com/nataliaivanov>

Hexagonal Reversi

- Developed a Hexagonal Reversi game using Java and implemented Object-Oriented Programming principles, ensuring a modular and scalable codebase that is thoroughly tested.
- Designed a robust Model-View-Controller architecture to enhance code organization, readability, and maintainability, facilitating seamless interaction between the game's components.
- 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.

Bill Splitter Web App

- 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 App Runner to ensure scalability and accessibility.

EXPERIENCE

Riverside Research

July 2024 - Present

Software Engineer Co-op

Centreville, VA

- Participated in full life-cycle software development, focusing on UI/UX design and both client-side and server-side development using C# and the .NET Framework, ensuring the code is extensible to mobile and web access.
- Employed SQL to query data from databases for statistical analysis, performed data labeling, and conducted trade studies on feature sets to train machine learning models, improving software functionality and user experience.

Student Government Association of Northeastern University

February 2024 - Present

Software Engineer

Boston, MA

- Developed a centralized system utilizing TypeScript, Jest, React, CSS, NestJS, and Firebase to streamline the process of senator applications and nominations, enhancing user experience and administrative efficiency.
- Implemented Agile software development methodologies to design, develop, and deploy features, collaborating closely with a team of 5 engineers, effectively utilizing Git to ensure the timely achievement of project milestones.

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.

Girls Who Code

July 2021

Intern

Remote Work

- Developed functional, accessible, and visually appealing websites through the utilization of JavaScript, CSS, and HTML: <https://47cc526f-708b-42d2-85f6-2087806a2323-00-2g33v5rg1vm48.picard.replit.dev/>.
- Collaborated with professionals in the tech industry, fostering valuable connections and gaining insights to stay versed of industry trends and best practices.

INTERESTS

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