

Natalie Ovcarov

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EDUCATION

New York University, Courant Institute of Mathematical Sciences

Bachelor's of Arts, [Computer Science](#)

Minor: Web Development and Applications

WORK EXPERIENCE

New York University – New York City, New York

Computer Science Tutor | January 2025 - Present

- Helping students with homework and programming exercises, focusing on core Java concepts like OOP, recursion, inheritance, arrays, sorting algorithms etc.
- Currently tutoring students both in person and online, explaining concepts and providing support with debugging, code structure and problem-solving.

Union of Associations of Pensioners of Macedonia – Skopje, Macedonia

Information Technology Intern [Website](#) | June 2023 - August 2023

- Provided IT support to staff and members by troubleshooting hardware and software issues.
- Supported the IT setup for the Annual General Meeting, ensuring smooth event execution with stable internet and projector setups.
- Managed technical infrastructure during high-profile meetings attended by the president of Macedonia and other key figures.

New York University – New York City, New York

Office Assistant | September 2022 - December 2022

RESEARCH

Supervisor: Prof. Anasse Bari, Clinical Assistant Professor of Computer Science | January 2024 – Present

Project: What Do Our Students Really Want?

- Investigating student preferences and needs through survey-based data collection.
- Collected 600 responses so far, with analysis underway to identify correlations and generate actionable insights.
- Link to survey we are using to collect data: https://nyu.qualtrics.com/jfe/form/SV_bPj3f8Z3bWdNuXI

PROJECTS

Team Project - Web Application Development | [GitHub Repository](#)

- Developed a simplified task management web app using **HTML**, **CSS**, **JavaScript**, **Flask**, and **MongoDB**
- Connected Flask with MongoDB via **PyMongo** to manage and store user data efficiently.
- Utilized **Docker Compose** to streamline deployment and ensure consistency across development environments. - Followed agile practices with daily standups and task tracking via Discord.

Team Project - Web Application Development | [GitHub Repository](#)

- Combined real-time weather data with gender-specific outfit suggestions for a location-specific experience.
- Used Dockerized services and GitHub Actions for efficient CI/CD and reliable live deployment via DigitalOcean.

Team Project - Python Package Creation | [GitHub Repository](#)

- Developed a user-friendly task management package called FunTasks featuring urgency-based task prioritization, random task selection, and tailored daily goals.
- Implemented easy installation via PyPI, pipenv virtual environments, and automated unit tests.

SKILLS & INTERESTS

Programming Language: Java - Structured and Object-Oriented Programming, C, Python

Interests: AI Ethics, Nature-inspired AI Research, Music, Nutrition, Exercise

Languages: English, Macedonian

Personal Qualities: Very collaborative, highly communicative, analytical, strong attention to detail