

# Natalie Ovcarov

New York City, NY 10003 | (646) - 877 - 9901 | [no2091@nyu.edu](mailto:no2091@nyu.edu)

## EDUCATION

**New York University, Courant Institute of Mathematical Sciences**

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

Minor: Web Development and Applications

Dean's List (Fall 2024) - Relevant coursework for the semester: Software Engineering, Operating Systems, Data management and Analysis, Research.

## WORK EXPERIENCE

**Classifiedy** - Remote

**Wordpress Engineer Intern** | February 2025 - Present

- I am responsible for maintaining the OSclass Marketplace, an online platform offering a variety of themes and plugins designed to enhance websites built with Oclass, an open-source content management system (CMS) for creating classified ads or marketplace websites - <https://osclass.wuaze.com/?i=1>
- Assist in developing and customizing WordPress and OSclass themes and plugins to enhance marketplace functionality.
- Troubleshoot technical issues related to themes, plugins, and overall site performance

**New York University** – New York City, New York

**Computer Science Tutor** | January 2025 - Present

- Tutor 5-6 students daily, both in person and online, helping them understand core Java concepts such as object-oriented programming (OOP), recursion, inheritance, arrays, and sorting algorithms.
- Assist students with debugging in Eclipse, teaching them how to use breakpoints, step-through execution, and watch variables to identify and fix errors efficiently.

**Union of Associations of Pensioners of Macedonia** – Skopje, Macedonia

**Information Technology Intern** || June 2023 - August 2023

- Provided IT support to 10+ staff members and 50+ association members, troubleshooting hardware and software issues such as printer malfunctions, email configuration errors, and network connectivity problems.
- Led the IT setup for the Annual General Meeting with 100+ attendees including the President of Macedonia, ensuring stable internet, projector functionality, microphone setup, and video conferencing for remote participants.

## RESEARCH

**Supervisor:** Prof. Anasse Bari, Head of AI and Predictive Analytics Research Group at NYU | January 2024 – Present

**Project: What Do Our Students Want?**

- Designed and distributed the survey using Qualtrics, gathering 700+ responses from NYU students
- Collaborating with the NYU AI Lab to apply basic NLP techniques for analyzing open-ended survey responses and identifying key themes
- Link to survey we are using to collect data: [https://nyu.qualtrics.com/jfe/form/SV\\_bPj3f8Z3bWdNuXI](https://nyu.qualtrics.com/jfe/form/SV_bPj3f8Z3bWdNuXI)

## PROJECTS

**Portfolio** - <https://nataliovcharov.github.io/> (for additional projects)

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

- Combined real-time weather data with gender-specific outfit suggestions for a location-specific experience.
- Our system is a Dockerized monorepo with a MongoDB database and a Python-based service, each featuring its own CI/CD pipeline using GitHub Actions for automated testing, Docker image delivery to Docker Hub, and deployment to DigitalOcean (currently not active).

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

- We built a Flask-based system that transcribes spoken journal entries into text and applies sentiment analysis to track mood trends.
- The system leverages Google Speech-to-Text, TextBlob for sentiment classification, and MongoDB for data storage.

## SKILLS

Agile methodologies (Scrum), Git & Github, GitHub Actions, Docker, DigitalOcean, MongoDB, Flask, Express.js (basic), React (basic), Python, Java, JavaScript (basic), C (basic), Macedonian (fluent), Ability to quickly learn new frameworks, tools, and languages as needed.