

Anastasija Tortevska

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EDUCATION

2025 – PRESENT **ETH Zurich** – *Zurich, Switzerland*

MSc, Computer Science – SPECIALIZATION: THEORY

Relevant Courses: Advanced Algorithms, Structural Graph Theory, Information Security Lab

2020 – 2024 **Columbia University** – *New York, NY*

BA, Computer Science Major & Math Concentration – GPA: 3.74

Relevant Courses: Databases, Artificial Intelligence, Natural Language Processing, Analysis of Algorithms, Computational Complexity, Parallel Functional Programming, Engineering Software as a Service, Game Design.

EXPERIENCE

Tumo - Software Engineer

NEW YORK, NY MAY 2023 – AUG 2023, MAY 2024 – FEB 2025

- Improved the reliability and maintainability of the deployment process by using Docker to containerize the internal API I developed using Java, Spring Boot, and MySQL.
- Enhanced user authentication and data privacy, by developing a secure login and registration system using Spring Security.
- Improved the application's security posture by integrating a MFA feature into the system using AWS services, and set up SMS authentication using Twilio's API, resulting in a 15% decrease in unauthorized access incidents.
- Increased user engagement to 120% by implementing a new landing page using React, focusing on intuitive user interface design and smooth user experience.

Columbia University - Teaching Assistant

NEW YORK, NY JAN 2022 – MAY 2024

- Assisted Professor Ansaf Salleb-Aouissi's COMS W3203 Discrete Math courses in Spring 2022, 2023, and 2024, as well as Professor Tal Malkin's COMS W3261 Computer Science Theory in Fall 2022.
- Held office hours, providing personalized guidance and addressing student inquiries, fostering a deeper understanding of course material.
- Organized engaging recitation sessions, enhancing comprehension through interactive problem-solving and discussion.
- Evaluated assignments and exams, offering constructive feedback to aid student learning and development for classes of 150-300 students.

Of All Trades - Software Engineering Intern

NEW YORK, NY MAY 2022 – AUG 2022

- Enhanced platform efficiency by conducting a comprehensive revamp of the database schema, implementing advanced indexing techniques and refining SQL queries within API calls, resulting in a 25% decrease in server load.
- Augmented user profile personalization by integrating a plethora of visual features for user cryptocurrency data, amplifying user interaction.
- Implemented a dynamic asset distribution visualization for users, employing strategic augmentations to the SQL database schema and created an interactive chart with real-time rendering, culminating in a 20% increase in user interaction.
- Spearheaded an overnight code review process, leveraging global time zone disparities to establish reduction in the feedback cycle duration.

Opal Wearables - Software Engineering Intern

NEW YORK, NY JAN 2022 – MAY 2022

- Constructed modular, reusable user interface components, screens, pages in Figma, and then implemented the designs using React Native.
- Designed intricate core user flows, meticulously aligning app functionality with user expectations. Translated these designs into actionable implementation, resulting in a 30% reduction in user navigational friction.
- Streamlined user onboarding by integrating social media account support into the sign-up flow and optimizing page navigation and restructuring personal information and preferences settings.

OLYMPIADS

International Mathematics Olympiad 2019, Balkan Math Olympiad 2019, European Girls Math Olympiad 2018-20 (Bronze, 2xHM), Asian-Pacific Math Olympiad 2018 (HM), Mediterranean Math Olympiad 2018-19 (Bronze), European Math Cup 2017-18 (Gold, Bronze) Macedonian Math Olympiad 2017-19 (2xSilver, Bronze)

PROJECTS

Way2Play - Platform that facilitates the process of finding accessible courts, playing fields, and relevant sport communities in NYC. Uses Google Maps API to provide real time geographic information of local courts. (Ruby on Rails, Heroku)

GapMinder - ML Random Forest model that predicts the Gini coefficient (a measure of income inequality) of a country based on its economic indicators like population, geographic location, GDP, GNI, tax percentages, imports/exports, inflation. (Python, scikit-learn)

SKILLS

LANGUAGES Python, Java, C, HTML, CSS, JavaScript, Bash, LaTeX

TOOLS Figma, SpringBoot, React, React Native, MySQL, AWS, Docker, Flask, Django, Git, Vim, Linux