Anastasija Tortevska

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EDUCATION

2020 – 2024   **Columbia University** – *New York, NY*
BA, Computer Science Major & Math Concentration – GPA: 3.70
President of the CU Goju-Ryu Karate Club
Relevant Courses: Databases, Artificial Intelligence, Natural Language Processing, Analysis of Algorithms, Computational Complexity, Parallel Functional Programming, Engineering Software as a Service.

EXPERIENCE

Tumo - Software Engineering Intern   MAY 2023 – AUG 2023
- 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.
- Generated 10x increased user engagement by implementing a new landing page using React, focusing on intuitive user interface design and smooth user experience.

Columbia University - Teaching Assistant   JAN 2022 – MAY 2023
- Assisted Professor Ansaf Salleb-Aouissi's COMS W3203 Discrete Math courses in Spring 2022 and 2023, 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.
- Orchestrated 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   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 crypto currency data, amplifying user interaction.
- Implemented a dynamic asset distribution visualization for users, employing strategic augmentations to the SQL database schema and orchestrating an interactive chart with real-time rendering, culminating in 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   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

Racoon Rambler - Designing and Developing a Unity-powered 2D platformer, blending intricate level design, object-oriented programming, physics simulations, and pixel-art animations. (C#, Unity)

ParQueens - Implemented a sequential algorithm for the classic N-Queens problem, then designed a parallel version of the algorithm in order to achieve significant speed-up. (Haskell)

SKILLS

LANGUAGES	Python, Java, C, HTML, CSS, JavaScript, Bash, LaTeX
TOOLS	Figma, SpringBoot, React, React Native, MySQL, AWS, Docker, Flask, Django, Git, Vim, Linux