Martin Ristovski

✉ martin.s.ristovski@gmail.com   github.com/martinristovski   🖥 martinristovski.com   📞 +1 929-260-5456

EDUCATION

2019 – 2023   **Columbia University** – *New York, NY*
BA, Computer Science – GPA: 3.63
Relevant Classes: Discrete Mathematics, Analysis of Algorithms, Artificial Intelligence, Natural Language Processing, Parallel Functional Programming, Advanced Software Engineering, Introduction to Databases

EXPERIENCE

Kensho Technologies - Software Engineer II, Core Infrastructure   JUL 2023 – PRESENT

- Implemented organization-wide Privileged Access Management to improve the auditability of interactions requiring elevated permissions
- Spearheaded the migration of our Python projects and libraries to UV, implementing new features in our CI system and creating instructional material in the form of a talk and documentation, resulting in a multiple order of magnitude speed-up in dependency resolution times and Python installation times
- Developed multi-region fallback system for our secret store, improving reliability and allowing for zero-downtime upgrades
- Automated monthly AMI upgrades, from image querying to progressive Kubernetes node cordoning
- Developed tooling for automated Python version upgrades of internal projects, covering syntax changes, Dockerfile adjustments, and dependency constraint updates

Columbia University - Teaching Assistant, COMS W4705 Natural Language Processing   JAN 2023 – MAY 2023

- Held weekly office hours for Columbia's graduate and advanced undergraduate Natural Language Processing class with Prof. Daniel Bauer
- Provided guidance and addressed student questions to foster a deeper understanding of the class material

BetterMeet - Software Engineering Intern   MAY 2022 – AUG 2022

- Built backend and API for meeting analytics browser extension that hooks into Google Calendar and Google Meet
- Implemented event tagging system, setting the groundwork for the product's core value proposition
- Included direct user feedback in analytics by implementing post-meeting survey screen and data gathering
- Set up build system and handled cloud deployment of the backend

Managirr - Software Engineering Intern   JAN 2022 – MAY 2022

- Optimized business logic performance by eliminating duplicate computation and minimizing the number of external API calls
- Implemented personal user file and template file storage by developing an AWS S3-based user file storage system
- Enabled users to get long-term financial insights into their portfolio by designing and building financial data screen

Hypefive - Software Engineering Intern   JUN 2021 – AUG 2021

- Built parts of frontend for cross-platform mobile app using Flutter
- Redesigned APIs for improved performance and maintainability relative to existing API approach
- Accelerated testing by setting up a build system for the core product

Columbia University - Research Assistant   JUN 2020 – AUG 2020

- Worked under Professor Georgia Karagiorgi on neutrino research as part of the High Energy Physics group at Columbia
- Analyzed data gathered by Fermilab's MicroBooNE detector and CERN's ProtoDUNE detector using CERN's ROOT C++ framework
- Optimized clustering algorithm implementation for finding Michel electrons in muon decay events
- Wrote code for real-time neutrino detection at the Deep Underground Neutrino Experiment, an 800 mile long detector with a data throughput rate on the order of terabytes per second

AWARDS AND RECOGNITION

Dean's List - given in recognition of high GPA at Columbia University

John Jay Scholar - given to 30 members of each incoming class of Columbia College for outstanding intellectual ability and leadership

International Physics Olympiad (2017, 2018, 2019) - represented my home country at the world's most prestigious physics competition

European Physics Olympiad (2017, 2018) - represented my home country at Europe's most prestigious physics competition

PROJECTS

Testudos - A parallelized multi-version testing harness for Python packages. (Python) - pypi.org/p/testudos

Trustfall Dockerfile Adapter - adapter for the Trustfall universal query engine that allows users to write queries about Dockerfiles (Rust)

L'Books - second-hand book marketplace with seller reputation and advanced filtering (Ruby on Rails, PostgreSQL)

SKILLS

LANGUAGES	Python, Jsonnet, SQL, Bash, Rust, Java, C, LaTeX
TOOLS	AWS, Docker, Git, Grafana, Kubernetes, Linux, OpenSearch, PostgreSQL, Prometheus, Terraform