

Ted Soldatov

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EDUCATION

University of Maryland, Baltimore County

Baltimore, MD

Double Major B.S Computer Science, B.A Mathematics

Aug. 2024 – May 2027

- Relevant Coursework: Data Structures and Algorithms in C++, Linear Algebra, Multi-variable Calculus, Natural Language Processing, Artificial Intelligence

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript, HTML/CSS, MatLab

Frameworks: React, Node.js, Flask, JUnit, Material-UI

Developer Tools: Git, Docker, VS Code, Eclipse, K8s, EC2

Libraries: pandas, NumPy, Matplotlib, keras, tensorflow, hugging face

EXPERIENCE

Software Engineering and Robotics Mentor

June 2025 – Jul 2025

Verizon, Walter Reed Naval base

Bethesda, MD

- Collaborated with program staff to enforce safety protocols and curriculum standards, while providing individualized support to students struggling with technical concepts in robotics and software engineering
- Served as a role model for underrepresented youth, promoting enthusiasm for STEM fields through hands-on activities, career exploration, and character development initiatives

Software Engineering Fellow

June 2024 – Sept 2024

Headstarter

NYC, NY

- Worked with a team of upperclassmen to build and scale 5 fullstack react/next apps with firebase
- Learned 7 new features, libraries and frameworks: React, Next, Node, Python, JavaScript, REST APIs and Firebase

Research Assistant

June 2023 – Nov. 2023

University of Maryland

College Park, MD

- Wrote a script 1,000+ script to process YouTube's 8M dataset for training data for Novel View Synthesis Diffusion Models
- Performed data analysis on 10k+ JSON objects and 100,000+ hours of video for verification of pre-processing script validity
- Utilized campus servers to run the script on a VM to speed up processing time, began implementing multithreading into the script to optimize its efficiency

PROJECTS

ETF Optimizer | *Python, Javascript, Open AI Assistants, React, Flask, ETF DB (by Yahoo)*

- ETF Portfolio optimizer that takes in a users current ETF portfolio through a CSV and based on the constantly updated ETF database by Yahoo that is fed to Chat GPT's API
- Performed analysis on the 30 categories of the ETF database for a total of over 2000 different ETFs analyzed with the help of GPT 4o
- Implementing personal portfolio storage in AWS S3 for simpler use of the application
- Dockerization and AWS EC2 deployment once every feature is implemented

Social Media Post Organizer | *C++, Makefile, Valgrind*

- Designed and implemented a flexible C++ priority-queue ADT (SQueue) supporting both skew and leftist heap variants, with user-pluggable priority functions via function pointers.
- Optimized core operations (merge, insert, extract) to run in amortized $O(\log n)$ time, and enabled dynamic rebuilding of the heap when switching priority functions or heap structures.
- Built a comprehensive test suite using a custom Tester class and random data generator, covering normal, edge, and error cases; achieved complete pass rate and validated zero memory leaks with Valgrind.

EXTRACURRICULAR ACTIVITIES

Accomplishments: Nationally Rated USA Fencing Referee, Maryland Seal of Bi-literacy, VISLA MVP mentor winner