Ted Soldatov

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EDUCATION

University of Maryland, Baltimore County   Baltimore, MD
Bachelor of Science in Computer Science   *Aug. 2024 – May 2027*
- Relevant Coursework: Data Structures and Algorithms in C++, Discreet Structures, Multivariable Calculus, Computer Architecture and Assembly

EXPERIENCE

Software Engineering Fellow   June 2024 – Sep. 2024
Headstarter   *New York City, 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

Undergraduate Research Assistant   June 2023 – Nov 2023
University of Maryland, College Park   *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, also began implementing multi threading into the script to optimize its efficiency

Undergraduate Research Assistant   June 2023 – Nov 2023
George Mason University   *Fairfax, VA*
- Programming software for a novel method of 3D protein visualization using 500+ polygons for object rendering
- Built on existing 10,000+ lines of code which I analyzed and compacted

PROJECTS

ERBuilder | *React, Docker, Kubernetes, Open AI API*
- Downloadable application that optimizes a user's Elden Ring build using 10 different technologies and cloud services. Originally a web app hosted with firebase, now a dockerized react app that has been deployed locally with Kubernetes
- Learned Kubernetes cloud infrastructure and got hands on experience with it through a local deploy of this application
- Learned docker infrastructure and Dockerized this application for hands on experience

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

FM Radio | *Soldering, Woodworking*
- Soldered a working FM Radio with 100's of changeable frequencies out of 200+ components
- learned 5 new soldering techniques and studied how to read a motherboard with 100s of symbols
- Learned how to measure cut and lacquer wood for over 20 hours to build a finished wooden case for the radio

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript, HTML/CSS
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
Other: Soldering, Woodworking, Engineering Design