Alexander Obolenskiy

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○ github.com/pm3512   ♦ Google Scholar

Education

Carnegie Mellon University, School of Computer Science   2021-2024
BS in Computer Science with concentration in Machine Learning.
GPA: 3.90, Dean's List: Fall 2021 – Spring 2024.
Coursework: Software Engineering (17-313), Operating Systems (15-410), Computer Systems (15-213), Distributed Systems (15-440), Algorithms & Data Structures (15-210), Program Analysis (17-355), Intro to Machine Learning (PhD, 10-701), Deep Learning (10-417), Generative AI (10-423)

Experience

Software Engineering Intern, Jane Street   May - August 2024

- Optimized an internal routing application to achieve an 80% speedup.
- Developed a compiler frontend for a domain specific language

Software Engineer, Jane Street   February 2025 - Present

Software Engineering Intern, InterSystems   Summer 2022, Summer 2023
Summer 2023

- Designed and developed a dashboard for a version control application using Angular and SQL.
- Effectively communicated with stakeholders to obtain specifications and feedback.
- Helped identify 3000+ problems in the usage of the application and drive action to fix them.
- After finishing the project early, fixed multiple bugs within the application.

Summer 2022

- Implemented automatic end-to-end testing for a product evaluation tool using Cypress.
- Integrated end-to-end testing into the Jenkins CI pipeline.
- Authored documentation and conducted live demos to promote further adoption of the tool.

Software Developer & Project Lead, ScottyLabs   September 2021 – February 2024

- Developed and maintained the registration and judging systems for TartanHacks, Pittsburgh's largest hackathon.
- Leveraged TypeScript, Next.js, React, Prisma and MongoDB to ensure a smooth experience for 350+ participants.
- As a project lead for the registration system, chose the direction of the project and mentored new members.

Software Engineering Intern, CMU CS Academy   January – May 2023

- Developed features and resolved bugs in a web-based platform for teaching computer science.
- Used JavaScript, React and Django to implement features such as media preview, plagiarism detection and exam mode.
- Advocated for and facilitated the adoption of TypeScript in the project.

Research Assistant, CMU Language Technologies Institute   May 2022 – December 2023

- Worked on research in Multimodal and Meta-learning.
- Results published in ICLR 2024.

Skills

Languages: JavaScript/TypeScript, HTML/CSS, Python, SQL, OCaml C, C++, Go, Bash, Java
Frameworks: React, Next.js, Tailwind, Angular, Django, Express, Prisma, Jest, Cypress, PyTorch, TensorFlow, JAX