

Darya Pylypenko

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SUMMARY

B.S./M.S. Computer Science at Florida State University with research in algorithms, systems, and AI. FSU ITS intern, research assistant FSU, lab assistant FAMU/FSU and President of Women in Computer Science. Experienced in C++, Python, MIPS, and quantitative analysis. Seeking internships in quantitative research, AI, and software engineering.

EXPERIENCE

Research Assistant - FSU

September 2025 – Present

Researching model extraction attacks and fingerprinting defenses in Graph Neural Networks through FSU's UROP program. Reproducing the GNNFingers framework using PyTorch and torch-geometric, simulating adversarial query attacks, and contributing to open-source tools for ownership verification in AI security.

Emerging Technology Intern - FSU Information Technology Services

August 2025 – Present

Updated and maintained websites for the President, ITS, and Provost departments, as well as aiding in the development of ai.fsu.edu, collaborating with researchers to create responsive, accessible content that highlights AI initiatives and enhances user experience.

Lab Assistant - FAMU-FSU College of Engineering

August 2025 – Present

Analysed X-ray and neutron scattering data using C/C++ algorithms; implement data parsing and analysis pipelines for materials-science research. Developed graphical user interfaces with the wxWidgets framework to visualise experimental data and improve researcher workflow.

Women in Computer Science (WICS) - President

April 2025 - Present

Leading a student organization promoting diversity in tech through coding workshops, mentorship, and networking events. Organized technical talks and collaborated with industry partners.

Generative AI Engineer – Reality AI Lab

May 2025 – August 2025

Develop generative AI tools like Marvel AI and Sky AI using LangChain, LlamaIndex, and RAG workflows. Built embedding-based search with OpenAI and Redis, deployed services on Google Cloud Run, and collaborated globally on open-source AI projects to improve educational accessibility.

Job-Shadow Participant – IT Support, Florida Auditor General

August 2025

Shadowed the IT Support group, observing systems-administration routines while networking with auditors and FSU alumni; gained first-hand insight into state-level audit operations leverage technology to safeguard funds.

PROJECTS

Coppola Artistica Website | C++, Python, Open Ai API, Vercel, HTML, CSS, JavaScript, PHP, MySQL, Adobe Photoshop

A full-featured e-commerce site for an Italian tile business. The project involved building custom product pages, integrating PHP and MySQL for backend management, and optimizing SEO across listings on Etsy and eBay. Additional work included creating visual branding using Canva and Photoshop.

C++ Projects | C++, C, Unix

A collection of C++ and C projects showcasing skills in object-oriented programming, data structures, algorithms, file I/O, and game development. Includes applications such as text-based games, data analysis tools, and simulation programs, demonstrating proficiency in problem-solving, clean code practices, and efficient program design.

EDUCATION

Florida State University

Expected Graduation, Spring 2027

B.S./M.S. Computer Science, Business Minor | GPA: 3.7

Honors: Presidents and Deans' list, UROP Scholar, STRIVE Award, Phi Sigma Theta, SCLA, Omicron Delta Kappa

Engagement: Tennis club, UROP, Italian club, ACM, Cybersecurity club, WICS club, Cloud Club, IATP Club

CERTIFICATIONS, INVOLVEMENT, SKILLS & INTERESTS

Languages: Russian, Ukrainian, Italian, Spanish, English

Languages and Framework: C++, C#, Python, Unix, HTML/CSS, Bash, JavaScript, MIPS

Tools and Technologies: AWS, MongoDB, VS Code, Git, GitHub, Next.js, Tailwind CSS, Google Maps API, eBay API, WooCommerce, MySQL, React, Pandas, QtSPIM, WordPress, Adobe Suite, Canva, Excel, Vercel, PyTorch

Skills: Machine Learning, Quantitative Analysis, AI, Data Analytics, Data Structures and Algorithms, Problem Solving, Collaboration, Communication, Leadership, Adaptability, Time Management, CLI tools, File I/O

Community Involvement: Relay for Life-Treasurer 2017-2024, Mote Marine-Team Lead 2019-2023

Interests : Weightlifting, Tennis, Art, Volunteering, Marathons