Dmytro Moshkovskyi

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Education

University of Central Florida — Orlando, FL

Bachelor of Science in Computer Science, ***GPA 3.9*** — *August 2023 – May 2027*

Knight Hacks Member — *September 2023 – Present*

Courses: Intro to Machine Learning, Object Oriented Software, Database Systems, Systems Software, Computer Architecture, Computer Logic and Organization

Work Experience

AI Intern — July 2025 – January 2026

Yellow.AI — *San Mateo, CA*

- Took part of a collaborative team, deploying AI voice and chatbots for **4 business-to-business clients**.
- Automated monitoring using **Python scripts** with the **Gemini API** for clustering conversation logs, noted for saving saved **3 weeks** of conversation monitoring.
- Assisted in **prompt engineering**, writing complex logical rules for bots to follow.
- Debugged, proposed solutions and improvements for both server-side and client-side issues.
- Used Cekura.AI for AI-driven testing, generating intelligent benchmarks and analytics.

Projects

Knighthoot | *MERN Stack, Git, Github* — October 2025 – November 2025

- Worked in a team **of 7 members**, coordinating a full-stack web and mobile platform.
- Worked with the team to develop a syncing pipeline between **up to 10 clients** and the server, linking them **in parallel**.
- Configured **SSL certificates** with **ZeroSSL**, establishing a **HTTPS** connection to the server.
- Managed a **Ubuntu Linux** web server on DigitalOcean with a **MongoDB** database and **Nginx** reverse proxy.
- Earned a grade of **100/100** and received appraise from the professor for going above the project expectations.

Bit Count Packing | *C, Compression, Algorithm Design* — February 2026 - Present

- Engineered and implemented a lossless compression algorithm, **reducing data size by 30 to 50%**
- Used C for the performance-critical nature of the project, deploying low-level, memory-safe code.
- Ran analytics under real-world stress such as normally distributed data and edge cases.

Lightning Search | *Python, C++, PyTorch, LibTorch, ExecuTorch, Sockets* — December 2025 – Present

- Developed a full-stack search engine built from scratch with C++ sockets, utilizing Exa Search.
- Using **PyTorch**, trained a word autocomplete neural network model. It is tailored for software-related queries on a dataset of **200000** Stack Overflow questions.
- Implemented the model in the server through **ExecuTorch**, built for **CUDA** backend.

FSPOT | *C++, HTTP Requests, Optimization* — August 2024 – October 2024

- Developed a full-feature Spotify Client, self-contained and cross-compatible in the terminal with integration to a Librespot receiver.
- Optimized the program to use **30mb of RAM** as compared to Spotify's **600mb**, reducing memory usage by **2000%**.

One Piece Summarizer | *Python, Machine Learning* — October 2023

- Coordinated **a group of 3**, under time constraints of **36 hours**, to deploy a functional machine learning model.
- Led the team to winning **1st place** in the **Knight Hacks 2023 Frying Pan Challenge**.

Technical Skills

Languages: Python, C/C++, mySQL, MongoDB, JavaScript, Bash

Libraries: PyTorch, LibTorch, ExecuTorch, Boost Library, Requests, Pandas, NumPy, Matplotlib, JSON

Frameworks: React, Node.js, Express.js

Developer Tools: Git, Github, VS Code, Vim, Make, CMake, OpenSSL, ZeroSSL, Nginx, Conda