
Education

University of Birmingham Sep 2022 – Jun 2025
BSc of Computer Science (**Predicted First**)

- Relevant Coursework: Algorithms, Data Structures, Operating Systems, Computer Vision

NTUU “Igor Sikorsky Kyiv Polytechnic Institute” Sep 2021 – Jun 2022
BSc of Computer Engineering

- Completed foundational courses in Programming, Circuits, and Logic Design
- Recognized as one of the top-performing students in the program

Experience

Interpreter (Summers 2022–2025) Jul–Aug (Each Year)
WorldWide Language Resources - Operation Interflex

- Provided real-time oral and written interpretation of commands and safety instructions
- Assisted in the demonstration and explanation of tactical exercises
- Ensured seamless communication between departments, reducing operational errors

Projects

Visualization | Educational Platform (GitHub, Python, PyTorch, Numpy, FastAPI, React, Docker)

- Built a custom NNUE network for chess board visualization and boosted the performance of the Sunfish engine.
- Demonstrated BFS, DFS, and A* algorithms with real-time pathfinding exploration.
- Illustrated step-by-step decision-tree exploration for better game strategy understanding.
- Developed an interactive tutorial module, guiding users to build their own neural network from scratch for chess analytics.

Arduino Hand Tracking (Python, Arduino, OpenCV)

- Developed a gesture-based system detecting fingers in real-time
- Leveraged camera feed + **OpenCV** to identify hand landmarks
- Displayed results on an **Arduino** for instant visual feedback

DOTA 2 Website Replica (React, JS, Python)

- Created a replica of the official DOTA 2 website to match style, aesthetics, and functionality
- Emphasized responsive design and user experience for consistent layout across devices

Reminder App (React, Python, Celery, FastAPI, SQLAlchemy, Docker)

- Built a containerized reminder application for scheduling tasks and timely notifications
- Implemented **Celery** for background job processing and **FastAPI** for a lightweight backend
- Implemented user authentication (e.g., JWT) ensuring secure access to reminders
- Employed **Docker Compose** to orchestrate containers (API, Celery workers, database), streamlining local development and production deployment

Skills

- **Proficient:** Python, JavaScript, FastAPI, Git, Docker, React, SQLAlchemy
- **Familiar:** Celery, Next.js, PyTorch, Numpy, Pandas, AWS
- **Databases:** PostgreSQL
- **Soft Skills:** Problem Solving, Critical Thinking, Time Management, Reliability
- **Languages:** English (Fluent), Ukrainian (Native), Russian (Fluent)