

Fayol Ateufack

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EDUCATION

Valparaiso University, Valparaiso, IN
Bachelor of Science in Computer Engineering
Bachelor of Science in Physics

Expected May 2026
GPA: 3.62 / 4.00

Awards: BlackRock Founder's Scholarship, Generation Google Scholarship, ComEd Future of Energy Scholarship

Certifications: Dale Carnegie Professional Development, Harvard's Introduction to Artificial Intelligence with Python, Harvard's Web Programming with Python and JavaScript.

SKILLS

Programming Languages: Python, JavaScript, C, C++, Java, SQL

Tools/Frameworks: PyTorch, Tensorflow, Django, FastAPI, React.js, React Native, Git, Linux, GCP, AWS, Docker

Spoken Languages: English, French

WORK EXPERIENCE

BlackRock, San Francisco, CA

June 2025– August 2025

Aladdin SWE Intern

- Designed and implemented AI agent workflow with persisted memory for portfolio management.
- Containerized servers to ease deployment and built an inspection tool to track AI agent performance across user sessions
- Created a diagnostics python package and server to automate environment configuration debugging during development

Micron Technology, Boise, ID

May 2024– August 2024

Probe Data Software Intern

- Collected, curated, annotated, and augmented data for edge die and touchdowns detection on silicon wafer. Trained model on Google Cloud Platform GPUs and YOLOv8 architecture, achieving a 98% mAP score.
- Automated inference pipeline from the manufacturing machines taking photos to the trained model running on Google Cloud.
- Built the backend of a web platform using Django and MySQL to visualize touchdowns history on wafer pads, hence facilitating process improvements and saving the company 2000+ hours/yr.

Exelon - ComEd, Chicago, IL

June 2023– August 2023

Data Analyst Intern

- Investigated reports mismatch on thousands of employees' records using python scripts. Designed database views on Oracle SQL to efficiently extract essential data ensuring regularotary compliance.
- Built Microsoft PowerBI dashboard tracking LMS employees' training progress on LMS, saving ComEd ~\$75k/yr.

PROJECTS / PUBLICATIONS / [Google Scholar Profile](#)

End-to-End traffic analysis with Computer Vision

Oct 2023 – May 2024

- Deep Learning to automate car detection and tracking for traffic analysis by training an RNN for trajectory prediction and a CNN for reidentification, achieving 97% accuracy and minimizing ID switches.
- Published by IEEE. Paper pdf: [Car tracking paper](#) Demo: [Sample car tracking video output](#)

Network and Graph Theory

Sep 2022 – March 2024

- Implemented a genetic algorithm for finding k-distinct paths in 2D lattices (an NP-Complete problem).
- Improved time complexity from $O(n^k)$ to $O(n \times k)$, thereby reducing computation time by years.
- Paper pdf: [Genetic Algorithm Paper](#)

Computer Vision-Based Parking Utilization Study

Oct 2023– Dec 2023

- Automated the report of parking lots occupancy using flying drones and a fine-tuned car detection YOLO model.
- Employed the OpenCV Oriented FAST and Rotated BRIEF algorithm for frame alignment.
- Published by IEEE. Paper pdf: [Parking paper](#)

Death Note

Feb 2025

- Created Death Note, a cross-platform app for note-taking with text, image, and audio support. Integrated an AI companion powered by LLMs on a Django server, providing contextual summaries like a biographer.
- Demo: [Death Note Demo](#)

HackHarvard: Autodine

Oct 2024

- Built an automated food ordering system featuring real-time voice transcription, processing, and text-to-speech responses.
- Developed a Django backend integrated with LLM tool-calling and a live dashboard using Server-Sent Events (SSE) to enable seamless order updates, real-time order state visibility, and enhanced user interaction and experience.
- Demo: [AutoDine Demo](#)

LEADERSHIP & COMMUNITY ENGAGEMENT

National Society of Black Engineers, Valparaiso, IN

2023 - Present

President

- Managed a budget of about \$10,000 to improve professional awareness among underrepresented communities in engineering.
- Planned and organized professional workshops and events, resulting in 70% of our *freshmen* getting internships.