Aryaan Verma

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EDUCATION

University of Florida — **May 2025**
B.S. Computer Science — *Gainesville, FL*
- Eagle Scout (2021), Accenture Innovation Challenge Semi-Finalist (2023), Dean's List; 3.7/4.0 GPA
- Relevant Coursework: Operating Systems, Algorithm Abstraction & Design, Programming Language Concepts

WORK EXPERIENCE

KARIBS Foundation Ghana — **May 2024 – August 2024**
Software Development Intern — *Accra, Ghana*
- Led 4-member team in the full software development lifecycle of an offline mobile educational tracking app, utilizing **Dart** and **Flutter**, resulting in a **100% offline-capable** app tailored for Ashanti region of **180+ schools**
- Designed and implemented a modular relational **SQL database**, integrating 10+ data models including classes, subjects, students, and test results, which improved **data management efficiency** by 50%
- Applied **Agile** practices, conducting weekly sprints and code reviews, and used **MVC development architecture** resulting in a 30% increase in development velocity and on-time delivery of all features

Franklin Templeton Investments — **June 2023 – August 2023**
Cloud Engineering/DevOps Intern — *San Mateo, CA*
- Aided in **CI/CD automation** for seamless integration across developer tools with **Hygieia DevOps dashboard** hosted on **Azure VM**, improving management efficiency by 30%
- Created cloud-hosted scripts using Jira and ServiceNow **APIs** to standardize information in management tools

NeurOn — **December 2022 – Present**
Founding Engineer/Backend Developer — *Miami, FL*
- Developing innovative research-backed stroke therapy app to help recovering patients improve cognitive ability
- Implemented **AWS** infrastructure including **CI/CD** pipeline, **EC2** servers, **Lambda** serverless functions, **RDS Postgres** database, and **Route53 DNS** configuration for scaling with user base
- Utilizing **Django** framework to create backend API to generate, store, and analyze user progress data

RESEARCH & ACADEMIC PROJECTS

Renewable Energy Law LLM Analysis — **January 2024 – Present**
- Developed a comparative **LLM** model with multidisciplinary team, using **LangChain** incorporated with **Retrieval-Augmented Generation** for document analysis of renewable energy laws, with up to 80% accuracy
- Utilizing **ChromaDB** vector database for efficient storage, retrieval, and analysis of relevant textual data

Cardiology App — **August 2021 – May 2024**
- Led team of 6 students in developing innovative **3-D cardiac modeling** app for patient/doctor education on Left-Ventricular Assistive Device (LVAD) heart surgery, with **AWS EC2/Lambda** and **Three.js** tech stack

Enhanced Research Paper Database – FICS (Florida Institute of Cybersecurity) — **July 2024 - Present**
- Developing research conference paper **SQL database** of **10,000+** papers with enhanced search features and insights using hash tables and extensive data pre-processing

SKILLS & INTERESTS

- **Skills:** Python; Java; C++; Golang; Dart; AWS; GCP; Azure mobile app development; web app development; Git; team management/communication; troubleshooting; ability to learn; responsibility
- **Interests:** Bhangra dance (started campus team); weightlifting; music production; The Wire; The Boys