

Pieter Alley

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EDUCATION

University of Florida, College of Engineering July 2022 – May 2026

B.S. Computer Science

- Artificial Intelligence Fundamentals Certificate
- Benjamin A. Gilman Scholarship Recipient (Summer 2024)
- Dean's List: Fall 2022, Spring 2024, Fall 2024, Spring 2025

EXPERIENCE

The Ark Foundation May – July 2024

Software Engineer Intern | Accra, Ghana

- Rebuilt a nonprofit's web presence using WordPress and JavaScript, improving accessibility and usability for low-digital-literacy users across two countries.
- Developed a JavaScript application and authored full handoff documentation, enabling the organization to independently maintain and extend their digital tools post-internship.
- Gathered requirements from non-technical stakeholders and translated them into technical specifications and deliverables, aligning engineering work with organizational goals.

PROJECTS

Virgo – Agentic Wardrobe Management App | Python, Google ADK, MongoDB Atlas | Summer 2026

- Built a FastAPI backend and React frontend around a Google ADK agent, exposing wardrobe CRUD, calendar planning, and gap analysis as function tools the model calls directly, deployed to Google Cloud Run.
- Designed a six-model fallback chain that retries automatically, so quota spikes degrade quietly to a cheaper model instead of surfacing errors.
- Shipped an in-app feedback form that files GitHub Issues directly from the chat UI with full conversation context attached, closing the loop between user reports and debugging.

Tennis Oracle – Tennis Prediction App | Python, Next.js, TypeScript, scikit-learn | Summer 2026

- Built a live, self-updating ATP match predictor: a FastAPI backend serving a tuned XGBoost model behind a Next.js/TypeScript frontend.
- Automated a GitHub Action that settles finished matches, ingests new ones, and backfills records missing from the odds market, running three times a day with no human in the loop.
- Enforced settled-prediction immutability with a result-field lock, preventing future retrains from rewriting historical predictions and preserving an auditable track record.

SKILLS

- Languages: Python, Java, C++, SQL, HTML, CSS
- Frameworks: React, Flask, Electron, WordPress, Git, AWS, Google Cloud
- Databases: MySQL, SQLite, MariaDB
- Tools: Claude Code, GitHub, Jira, VS Code, Linux, Google Looker, Docker