Theodore Willingham

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Personal Portfolio - https://portfolio-qvk2mxwwh-theodorewillinghams-projects.vercel.app

SUMMARY OF QUALIFICATIONS

- Computer Science student at the **University of Georgia** (4.0 Major GPA, AI emphasis) with strong foundations in software engineering and data-driven problem solving.
- Hands-on experience in full-stack web development, systems programming (C/C++), and AI-powered tools.
- Selected for **NASA-aligned CubeSat research lab**; contributed to the development of flight software and secure over-the-air firmware update system.

EDUCATION

University of Georgia, Franklin College of Arts & Sciences   Athens, GA
Bachelor of Science in Computer Science | Area Of Emphasis: Artificial Intelligence   December 2026
- Major GPA: 4.00/4.00
- Minor: Japanese Language & Literature

RELEVANT COURSEWORK

Software Development | Theory of Computing | Systems Programming | Web Development | Computer Networks | Data Structures | Calc 3 | Discrete Mathematics | Algorithms | Computer Architecture Organization | Human-Comp Interaction

TECHNICAL SKILLS

- **Programming Languages**: Python (Intermediate), Java (Advanced), C (Intermediate), C++ (Intermediate), TypeScript (Advanced), JavaScript (Advanced), HTML: (Advanced), CSS (Intermediate)
- **Frame Works / Libraries:** JavaFX, React, Mongoose (ODM), OAuth, JWT (JSON Web Tokens), NextAuth.js, NASA F' Flight Software Framework
- **Tools:** Linux/Unix**,** Git, MongoDB, Node.js, NextAuth.js, Figma

OTHER WORK EXPERIENCE

Police Cadet   Athens, GA
Athens-Clarke County Police   *August* 2024 - Current
- Optimized ACCPD's SQL-based CAD system, improving emergency response efficiency by 27%.
- Connected RFID-enabled Linq cards to a centralized web platform for ACCPD, significantly improving public access to critical community resources and increasing engagement by 17%.

PROJECT EXPERIENCE

MEMEsat-1 Satellite (NASA F´ Flight Software Framework, C++)   **Fall 2024 - Current**
- Selected as one of 3 candidates from 300+ applicants after 3 interview rounds. Developed a robust OTA firmware updater & scheduler component for the MEMESat-1 satellite.
- Collaborated in Agile-style team meetings, providing progress updates, identifying blockers, and adapting sprint goals to ensure consistent progress on flight software modules.

Bulldog Marketplace (TypeScript, React, CSS, Node.js, MongoDB)   **Spring 2025**
- A full-stack web application enabling UGA students to buy and sell secondhand goods. Built a responsive React frontend with TypeScript and CSS. Implemented a secure backend using Node.js, and MongoDB with Mongoose for data modeling. Integrated Mapbox API to display user locations and secured user authentication with OAuth and implemented password hashing and salting for data protection.

Teddy's Stock Evaluator (Java - JavaFX)   **Spring 2023**
- Developed a stock evaluation tool using Alpha Vantage and Numbers APIs. Assessed stocks using three custom metrics, defined in collaboration with a former ExxonMobil Senior Engineering Specialist turned financial advisor.

AI Resume Critiquer + CLI AI Chatbot (Python, Streamlit, OpenAI)   **Fall 2025**
- Developed an AI-powered resume critiquer using Streamlit and OpenAI in Python that analyzes PDF resumes to provide role-specific feedback. Built an integrated CLI chatbot with custom tools to enhance personalization and user productivity.

INVOLVEMENT & AWARDS

- Secretary of UGA Japanese Conversation Club
- Small Satellite Research Laboratory (https://smallsat.uga.edu/)
- CURO Research Award Winner - OTA Updater