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EDUCATION

University of Maryland

College Park, Maryland

B.S. in Computer Science, ML concentration

Expected Graduation, May 2027

o **Related Coursework:** Object-Oriented Programming, Object-Oriented Programming II (Data Structures and Algorithms), Intro to Computer Systems, Linear Algebra, Calculus I & II, Probability & Statistics, Discrete Math

EXPERIENCE

GBCS Group Remote

Backend Intern

April 2025- Aug 2025

- Optimized backend APIs in Node.js/Express with Prisma and Postgres, improving proposal-loading times by 4x (1300ms to 300ms) and accelerating authentication workflows by 5x through LRU caching, query optimization, and parallelized API calls across frontend integrations.
- Served as backend lead for two internal platforms (GBCS University and Voop), leading check-ins and troubleshooting
 sessions, guiding teams to resolve critical production issues in half the allotted time, and maintaining the production Azure
 database and infrastructure.

<u>DocuGuardian</u> Remote

Development Intern (Full-Stack Development Intern)

Dec 2024- July 2025

- Contributed to the secure file uploading feature, building the form and encrypted file handling workflows to protect sensitive documents.
- Built and enhanced 25+ core features across sign-in workflows, landing pages, and dashboard using Java, Spring Boot,
 React, TypeScript, and MySQL.
- Developed backend integrations to ensure seamless communication with frontend features and performed end-to-end testing to deliver a stable, production-ready MVP.

Garden For Wildlife

ML Intern

Aug 2024-current

Designed and implemented an Al-nowered chathot using GPT-40, FAISS, and a Retrieval-Augmented Generation (RAG)

- Designed and implemented an Al-powered chatbot using GPT-4o, FAISS, and a Retrieval-Augmented Generation (RAG)
 pipeline, delivering personalized, location-based native plant recommendations across the U.S
- Integrated and processed a structured dataset of 110+ native plant species (CSV) while documenting system architecture, API integrations, and user flows to ensure accurate insights, scalability, and maintainability.

PROJECTS

Al Native Plant Chatbot

March 2025 - Present

- Developed a production-ready chatbot using FastAPI, React, GPT-4 with a Retrieval-Augmented Generation (RAG) pipeline, and FAISS to deliver personalized, location-based native plant recommendations across the U.S.
- Planned and documented the end-to-end system architecture—including API integrations, conversation memory, and prompt engineering—while processing a CSV of **110+ unique plant species** for accurate gardening insights.

Tetherboard

April 2025 – April 2025

- **Built a real-time collaborative knowledge platform in 36 hours**, supporting live, simultaneous editing by multiple users with markdown, syntax highlighting, LaTeX, image embedding, and interactive "Tethermap" visual graphs.
- Integrated an AI chatbot using Google's Gemini API for contextual Q&A across shared workspaces, while developing the platform with React, TypeScript, Firebase, Tailwind CSS, and shadon to ensure a responsive and scalable user experience.

AI Youtube Summarizer

July 2024 - August 2024

Built a full-stack YouTube summarizer using React, Node.js, MongoDB, and Gemini 1.5, featuring structured summary
generation, history tracking, dynamic sidebar navigation, and seamless copy-to-clipboard functionality for a polished user
experience.

ACTIVITIES AND LEADERSHIP

Do Quantum

Quantum Researcher

College Park, Maryland

February 2025-current

Participating in a three-semester research program with Do Quantum, focusing on post-quantum cryptography (Kyber,
 Dilithium, McEliece) using Qiskit, PQClean, and SageMath, with a goal of publishing findings.

SKILLS

Programming: Java, Python, C, HTML/CSS, React.js, Node.js, Express.js, TypeScript.js, SpringBoot, JPA, Maven, MongoDB, Agile Methodologies, Shell Scripting, LangChain, FastAPI

Tools: Eclipse, Pycharm, Intellij, VSCode, Git, Jupyter Notebooks, NumPy, Pandas, Scikit-learn, MongoDB Compass, MYSQL Workbench, JIRA, Confluence, Postman, Docker, Azure