

# Alba Samsami

US Citizen

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Open to Relocation

## EDUCATION

University of Cincinnati

Major: Bachelor of Science in Computer Science

Expected Graduation: Aug 2026

GPA: 3.5

## TECHNICAL SKILLS

- **Programming Languages:** C++, Python, JavaScript, Java, LabView, MatLab
- **Frameworks:** Keras, TensorFlow, PyTorch, Selenium, Electron, React, FastAPI
- **Artificial Intelligence and Machine Learning:** Natural Language Processing, Large Language Models, Transformer Architecture, Math for Machine Learning, Data Processing, Fine-tuning, Regression Analysis, Agno
- **Tools & APIs:** Azure, PostgreSQL, qTest, Docker, GitHub Actions, Datto RMM, Connectwise Manage, Zoominfo
- **Development Practices:** Agile Methodology, Object-Oriented Programming, Microservices Architecture, CI/CD Pipelines, Unit & Integration Testing, Test Case Development, Unit Test Case Development, Unit Testing, Version Control

## EXPERIENCE

### Quality Engineer Intern, Capgemini, Cincinnati

Jun 2025 – Aug 2025

- Pioneered an agentic AI platform with a team of 3 to automate the Quality Engineering lifecycle, integrating a backend for data ingestion, 4 modular AI agents for analysis, and a frontend UI, which improved the process efficiency by 30%
- Designed and implemented a Python backend integrated with qTest and PostgreSQL to manage 500+ requirements and test records, incorporating unit testing to ensure reliability
- Developed AI agents using Agno and Python, automating requirement analysis, cross-story relationship detection, and regression test generation; established CI/CD pipelines with Docker and GitHub Actions for continuous integration, testing, and deployment

### Software Engineer Intern, ZZ Computer, Los Angles

Jan 2025 – May 2025

- Architected an AI scheduling assistant leveraging Outlook API, OpenAI, and Electron, automating email intent detection and meeting scheduling, cutting manual scheduling effort by 60%
- Engineered real-time desktop features for intelligent calendar management and workflow automation using FastAPI and JavaScript
- Delivered remote IT support, handled account access issues, and created training resources to improve client self-sufficiency and reduce recurring tickets by 20%
- Generated performance reports, tracked client issues, and used ZoomInfo to identify and onboard new clients to IT services

## PROJECTS

### GainLog

Sep 2025 – Sep 2025

- Programmed a full-stack web application using Vite + Svelte and PostgreSQL, featuring responsive, real-time dashboards with interactive data filtering and visualizations for improved usability
- Deployed to Vercel with CI/CD pipelines and environment management, ensuring reliable scalability and continuous delivery

### Edge AI Accelerator, Startup Weekend | Third Place Winner

Jan 2025 – Jan 2025

- Developed and pitched the concept of a low-latency Edge AI accelerator architecture to optimize model inference on local devices
- Created a compelling pitch deck showcasing the product's market potential, technical feasibility, and business strategy
- Delivered a cogent presentation to entrepreneurs from Cincinnati, earning 3rd place among multiple competing teams

### Fit-Plant

Sep 2024 – Nov 2024

- Designed and developed an IoT-enabled web app integrating NPK, light, and soil moisture sensors with an ESP32 chip, enabling real-time data collection and analysis
- Built a web application using Python, React, and Tailwind CSS to display sensor data, compare readings to optimal plant care parameters, and provide actionable advice to users
- Conducted market research and created a pitch deck to present the project to local entrepreneurs, showcasing its innovation and commercial potential as part of an entrepreneurship challenge

### Custom GPT Language Model

Jul 2024 – Aug 2024

- Built a GPT-inspired language model from scratch using PyTorch, and trained on custom datasets for text generation
- Implemented transformer architecture with multi-head self-attention, and achieving efficient token-based predictions
- Optimized model training with memory mapping and dynamic batching, reducing training time

### NLP Text Classification

Jun 2024 – Jun 2024

- Implemented a deep learning model incorporating embedding, pooling, and dense layers, optimized with binary cross-entropy loss and the Adam optimizer for efficient training
- Developed a sarcasm detection model using TensorFlow/Keras, addressing a complex NLP problem requiring contextual understanding and semantic nuance
- Preprocessed and tokenized textual datasets to improve model performance and generalization across diverse inputs