

Alba Samsami

US Citizen

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EDUCATION

University of Cincinnati

Major: Bachelor of Science in Computer Science

Minor: Entrepreneurship and Family Businesses

Expected Graduation: Aug 2026

GPA: 3.5

TECHNICAL SKILLS

- **Programming Languages and Frameworks:** C++(Object-oriented Programming), Python, JavaScript, Java, LabView, Keras, TensorFlow, PyTorch, MatLab, Selenium, Electron
- **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:** Outlook API, Azure, Fast API, PostgreSQL, qTest, Docker, Datto, Axcient, Acronis, Barracuda, Datto RMM, Augmentt, Connectwise Manage, Connectwise Sell, IT Glue, Vonahi, ID Agent, Zoominfo

EXPERIENCE

Software Engineer Intern, Capgemini

Jun 2025 – Aug 2025

- Built an agentic AI platform with a team of three to automate the QE lifecycle, integrating a backend for data ingestion, modular AI agents for analysis, and a frontend UI for displaying structured requirements, related stories, test and risk insights
- Designed a backend system that integrates with qTest and PostgreSQL to ingest and manage requirement and test data
- Developed AI agents using Agno to convert raw requirements into structured fields (persona, story, functionality), identify cross-story relationships, generate common test cases with regression and impact analysis

IT/Software Engineer Intern, ZZ Computer

Jan 2025 – May 2025

- Developed an AI agent solution as a cross-platform desktop app using Electron, Outlook APIs, and OpenAI models to intelligently detect scheduling intent in emails, extract meeting details, and automate calendar management with minimal user input
- Delivered remote IT support, handled account access issues, and created training resources to improve client self-sufficiency and reduce recurring tickets
- Generated performance reports, tracked client issues, and used ZoomInfo to identify and onboard new clients to available IT services

PROJECTS

Edge AI Accelerator, Startup Weekend | Third Place Winner

Jan 2025 – Jan 2025

- Developed and pitched the concept for a flexible Edge AI accelerator with a new architecture to optimize AI processing locally
- 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 third place among multiple competing teams

Fit-Plant

Sep 2024 – Nov 2024

- Designed and developed a digital soil meter 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

- Executed a deep learning architecture including embedding, pooling, and dense layers, utilizing binary cross-entropy loss and Adam optimizer for training
- Developed a sarcasm detection model using TensorFlow/Keras, tackling a complex NLP task that involved understanding the subtle nuances in textual data

Chest X-ray Analysis Program, Revolution UC

Feb 2024 – Feb 2024

- Trained a Convolutional Neural Network model with over 5000 chest X-ray images using TensorFlow library
- Achieved high accuracy (epochs: 100, batch size: 16, learning rate: 0.001) through parameter optimization
- Applied a user-friendly interface using Streamlit library for healthcare professionals