

# ANGELA MAGTOTO

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## Education

UCLA Henry Samueli School of Engineering and Applied Science

Bachelor of Electrical Engineering

May 2028

Los Angeles, CA

## Work Experience

Amazon Web Services (AWS AML Science Team)

June 2025 – Sept 2025

Software Development Engineering Intern

New York, NY

- Developed a **multi-agent system** using Agentic protocols and AWS frameworks **eliminating 100% of manual customer feedback analysis**, and saving **30+ hours weekly** spent on repetitive document review
- Expanded my departments **integration of Agentic AI** by authoring an article titled "Fundamentals of AI Agents and Building a Multi Agent System in 4 Steps," which was featured in the AWS AIO Launch
- Addressed security concerns by building a **custom MCP server** with OAuth per-user isolation, ensuring secure 3rd party API integration with new and existing systems using FastMCP SDK
- Tackled PM scalability issues with Lambda-triggered RAG pipeline processing **1100+ customer documents daily**, delivering **90% faster insight extraction** from previously inaccessible unstructured data
- Eased deployment friction by building a infrastructure with AWS ECS Docker, that enabled **zero-downtime releases** and **75% faster provisioning** for rapid iteration cycles

## Projects

Autonomous Micromouse Maze Solver | IEEE @ UCLA

C++ | Embedded Systems | Algorithm Design

- Implemented **custom pathfinding algorithms**, achieving **sub-30 second** maze completion
- Architected **full-stack hardware solution** from PCB design to C++ script, integrating microcontroller with sensors and motor control for autonomous navigation

AWS DeepRacer

Python | PyTorch | Reinforcement Learning

- Developed **neural networks** using PyTorch for computer vision-based track recognition and steering prediction
- Fine-tuned **reward function** to improve lap consistency by **75%** and achieving competitive racing performance

Full-Stack Media Platform

React | Node.js | PostgreSQL

- Built and deployed a **full-stack web application** for social media community engagement reaching 5M+ page views
- Implemented responsive React UI/UX to attract 5+ sponsorships

Lightweight Combat Robot

Python | Systems Integration | CAD

- Designed **spinner combat robot** using SolidWorks and FEA simulation, optimizing structural integrity
- Created embedded control system with **Arduino microcontroller** for precise maneuvering
- Coded **adaptive PID algorithms** which maintained orientation stability during high-speed weapon operation

## Leadership

Hackathon Software Development Education | Spark & Hack the Wave

2022 – 2025

- Hosted two hackathons to expand gender diversity and accessibility in technology, featured in Forbes
- Organized **workshops** for **90+ students**, mentoring participants on NLP fundamentals and full-stack web development

## Technical Skills

**Languages:** Python, C++, SQL, JavaScript, Java, TypeScript

**AI/ML Frameworks:** TensorFlow, PyTorch, AWS Bedrock, StrandsAgents, Bedrock AgentCore, LangGraph, Neo4j

**Libraries:** OpenCV, Pandas, NumPy, NLTK, spaCy, Matplotlib

**Cloud & Tools:** RESTful APIs, CI/CD, AWS (Lambda, API Gateway, S3, EC2, CloudWatch), PostgreSQL, DynamoDB, MySQL, Docker, Git, Jupyter, VS Code

**Topics:** NLP, Reinforcement Learning, RAG, Agentic AI Workflows, A2A, MCP, Prompt Engineering