

## EDUCATION

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### University of Maryland - College Park

College Park, MD

*B.S. in Computer Science*

*Expected Graduation: May 2026*

- **Relevant coursework:** Data Structures, Algorithms, Computer Systems, Data Science, Web Applications, Computer and Network Security, Programming Handheld Systems, Linear Algebra, Object-Oriented Programming I & II.

## SKILLS

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**Programming:** Golang, Python, Java, C++, SQL, Typescript, Node.js, C, MATLAB, R

**Web, Cloud & DevOps:** React.js, Flask, gRPC, REST APIs, AWS (EC2, S3, Lambda, Bedrock, CloudWatch), Docker, Kubernetes, Linux, Terraform

**AI, Monitoring & Tooling:** Claude, GPT, Langchain, RAG systems, LangGraph, Databricks, ThousandEyes, Git, CI/CD, Postman, Tensorflow, PyTorch, Cursor, Claude Code, n8n

## EXPERIENCE

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### Blackhawk Network

Pleasanton, CA

*Software Engineering Intern*

*June 2025 – August 2025*

- Built a chatbot using **AWS Bedrock/Claude** and custom **RAG system** for cloud issue diagnostics and data retrieval.
- Created a AWS monitoring pipeline with **Lambda, S3, and CloudWatch** to auto-update chatbot's knowledge base.
- Automated AWS EC2 deployment using a **CloudFormation Stack Generator** to scale infra across all BHN regions.
- Deployed **ThousandEyes** agents on EC2 instances to achieve **100% monitoring coverage** across cloud, datacenters and partner systems capturing real-time network metrics such as latency, ping, throughput and path visualizations.
- Built a dashboard using ThousandEyes API with **React.js** and **Python Flask** to create, edit, delete, and visualize network tests, **enabling engineers to manage network checks and view real-time metrics.**

### Ciena Corporation

San Francisco Bay Area, CA

*Software Engineering Intern*

*June 2024 – October 2024*

- Built internal LLM tools with **AWS Bedrock/Claude**, integrated into Microsoft Teams supporting **10k+ daily queries**.
- Developed a **GitHub PR reviewer** in Python using Claude to auto-analyze repos and generate actionable feedback
- Integrated the LLM with Microsoft Teams via the Navi chatbot API for convenient corporate-wide access.

### Tarana Wireless, INC

San Francisco Bay Area, CA

*Software Engineering and Data Science Intern*

*June 2023 – August 2023*

- Developed a Python automation bot to classify, sort, and respond to support tickets, cutting response time by 75%.
- Created an AI agent using **Claude/Langchain** to classify ticket categories achieving **99% accuracy** across 20+ categories.
- Implemented **Databricks + MLflow** pipelines for model versioning, batch processing, and scalable support ops.
- Cut ticket escalation by over **50%** with an LLM-driven FAQ system that resolved common issues automatically.

### Splurge Software LLC

San Francisco Bay Area, CA

*Lead Software Developer/Founder*

*December 2021 – June 2023*

- Built a deal automation tool in **Golang + React.js**, securing **100k+ deals** for customers from Big Box online retailers
- Designed a backend using **gRPC, custom HTTP clients**, and **proxy rotation**, handling **millions of requests daily**.
- Fetched price drops, restocks, and promo data via request-based collectors hitting public product pages and official APIs

### UC Berkeley Advanced Bioimaging Center

Berkeley, CA

*Software and Data Research Intern*

*May 2021 – September 2021*

- Developed automated ingestion pipelines to process **1TB+** of microscopy data using Python/Numpy, for training CNNs
- Created segmentation tools for grouping **thousands of research images**, supporting major biological research publications.

## PERSONAL PROJECTS

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### Portfolio Tracker

- Built a full-stack portfolio tracker using **Golang** and **React.js** to monitor stock holdings, P/L, and market performance.
- Integrated **Yahoo Finance API** and brokerage APIs to fetch live data and historical trends across multiple asset classes.
- Implemented automatic gain/loss summaries and data visualizations with **Matplotlib**, and added an AI module using **Ollama GPT-OSS**, to surface medium to long-term investment opportunities based on historical trends and current events

### Prediction Markets Terminal

- Built an **LLM-powered** news/Twitter monitor that links major headlines to matching **Polymarket/Kalshi** markets and outputs clear **buy/sell/hold** calls for a paper portfolio, so a non-trader can see actionable takes at a glance.
- Fetched **active** markets from official APIs and priced implied odds (CLOB/Kalshi). Claude **summarizes headlines, extracts entities, and estimates impact** to nudge probabilities and compares them to odds to give the recommendation.
- **Stack:** Python workers do news parsing and LLM scoring; Go serves the API and live dashboard; **Postgres** (Docker) stores markets/signals. Users interact with dashboard to monitor live portfolio and get alerts for recs via **email/SMS/Telegram**.

### Personal AI Assistant

- Created a personal AI assistant using **Llama/GPT** to automate scheduling, meal tracking, and financial insights.
- Integrated APIs for credit card transactions, bank feeds, and calendar events, enabling real-time insights and planning.
- Enabled natural language commands with real-time function execution using keyword mapping + context-aware task routing.