# Zaki Khan

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## EDUCATION

**Lehigh University,** Bethlehem, PA — Expected Graduation: December 2026

*Bachelor of Science in Computer Science and Business Honors Program, Minor in Entrepreneurship*

*Relevant Coursework:* Machine Learning, Financial Accounting, Product Development, Software Engineering, Database Systems

## WORK EXPERIENCE

**AI & Data Technology Consulting Intern** — *New York, NY*

*Ernst & Young (EY)* — June 2025 - August 2025

- Analyzed client workflow bottlenecks and defined 6 **Jira** user stories to accelerate AI product delivery for Power & Utilities client
- Analyzed 5 client pain points, defined 6 **OKRs**, and built 3 AI **proof-of-concepts** using ChatGPT for structured prompts, Lovable for rapid **MVP prototyping** and UX design, and Claude for code generation, presenting final **PowerPoint** presentation to team
- Completed "Develop AI Agents on Azure"; built agents with **AI Foundry** & **Semantic Kernel** using **MCP**, custom tools/workflows

**AI/ML Engineer & Project Manager** — *Remote*

*Swytch* — April 2025 - June 2025

- Led 4 engineers using **CRISP-DM** framework to build a resume-to-job similarity model for Swytch, a platform for career switchers
- Cleaned 10,000+ resumes/job desc. and built **TF-IDF** and **cosine-similarity** pipelines using **Pandas**, **NumPy**, and **scikit-learn**
- Evaluated performance with **Precision@K**, **Recall@K**, and **MRR** and built a **Power BI** dashboard to track model quality

**Product Management Intern/Research Assistant** — *Dortmund, Germany*

*Center for Entrepreneurship and Transfer; Technical University Dortmund* — June 2024 - July 2024

- Interned with 4 local startup founders to define **OKRs** and **roadmaps**; streamlined **Jira** workflows to cut delivery time by ~20%
- Accelerated PhD research timeline by 40% by building an AI agent processing earnings data and creating interactive dashboards

## PROJECTS

**Co-Founder - *FightCode*** — February 2026

- Building a startup alongside 3 founders, a live PvP competitive vibecoding platform where users create full web apps under timed conditions in agentic coding IDEs, evaluated through testing and agentic judging powered by Claude
- Built the platform's full-stack architecture using **Next.js**, **TypeScript**, **PostgreSQL**, and **Docker**, enabling users to write, run, and test code in isolated browser-based development environments; Currently at 100+ MAUs and $60/MRR
- Developed 4-month roadmap from prototype to VC pitch, managing product delivery, Jira workflows, and GTM planning

**AgentMe*; Vibecoding Hackathon***; *Lehigh University* — November 2025

- Vibecoded *AgentMe*, an assistant that scrapes internships, scholarships, and research roles and delivers personalized matches
- Designed an end-to-end AI workflow using 8+ tools (**Perplexity**, **UXPilot**, **Figma**, **Lovable**, **Claude Code**, **n8n**) for wireframing, prototyping, and building an n8n agentic pipeline automating scraping, ranking opportunities, and using DSP to prompt AI tools

**Census Income Prediction Project – *Data-Driven Income Analysis***; *Cornell Tech* — July 2025

- Achieved 85%+ accuracy income predictions by analyzing 32K+ U.S. Census records using **Python**, **pandas**, and **scikit-learn**
- Built/fit Logistic Regression and Decision Tree models; tuned hyperparameters via GridSearchCV to improve performance

**AITaskBuddy - *Microsoft Innovative Challenge (Hackathon; Finalist)*** — March 2025

- Aids job coaches in supported employment automate task planning, tracking employee progress, and auto form reporting
- Built using **Python**, **React.js**, **Node.js/Express**, and 8 **Azure AI** services including **GPT-4**, **Speech Services**, **Document Intelligence**

## LEADERSHIP

**President** — *Bethlehem, PA*

*Computer Science & Business Association (CSBA); Lehigh University* — March 2025 - Present

- Directed 9-member board & committees to deliver tech events like hackathons and development programs for 300+ students
- Organized CSB to NYC trip, securing tech/finance partnerships bringing 100+ students to 10+ companies like Spotify, AWS, IBM

**Founder/President** — *Bethlehem, PA*

*Lehigh AI Club; Lehigh University* — February 2024 - Present

- Launched first-ever artificial intelligence club at Lehigh University managing 400+ members and 8 board members
- Oversight of 25+ events yearly, leading AI workshops and working with 10+ other clubs orgs, 5+ companies, and 20+ alumni

## SKILLS

**Languages:** Python, SQL, Java, C/C++, HTML/CSS, JavaScript

**Data/ML/Visualization**: Pandas, NumPy, scikit-learn, PyTorch, TensorFlow (Keras), Jupyter, Power BI, Matplotlib, Excel

**Certifications**: Databricks SQL for Data Analysts, Microsoft Azure AI Engineer (AI102), Develop AI Agents on Azure