

Dhiren Mahajan

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EDUCATION

Bachelor of Science, Computer Science

Expected Graduation: May 2026

University of Cincinnati, Cincinnati, OH

- GPA: 4.00/4.00
- Honors and Awards: University Honors Scholar, International Outreach Scholar, UC Global Scholar, Dean's List for 6 consecutive semesters, 3-time Mantei Mae Awardee for highest GPA in major

WORK EXPERIENCE

AI/ML Developer | Apex Group

January 2025-August 2025

Maharashtra, India

- Built cloud-native AI pipelines on Microsoft Azure (AI Foundry, ML, Data Factory, Functions) with CI/CD (GitHub Actions); automated parsing of 400+ daily emails/docs via PySpark/Flask, cutting end-to-end turnaround by 95% and reducing manual touchpoints
- Orchestrated cross-app automations with Power Automate (Outlook/SharePoint/ticketing) and Excel (VBA + Power Query) to auto-route the same 400/day inputs into curated datasets and SLA dashboards, eliminating rework and sustaining the 60% error reduction in operations
- Productionized a GenAI (GPT-03) RAG chatbot over internal knowledge bases for tenant support across 350 properties; added evaluation harnesses and guardrails to stabilize responses and enable compliant 24/7 self-service

Software Engineering Co-op | Phillips Edison and Company

August 2023-August 2024

Cincinnati, Ohio

- Designed and deployed AI-powered document abstraction pipelines with Azure OpenAI, Python, LangChain, SQL, cutting processing time by 90% and generating \$100K annual savings
- Implemented RAG-based chatbot with vector search and intelligent query decomposition, achieving <2-second retrieval from 500+ financial documents
- Automated property-management workflows using SQL Server, Power Automate, and MRI ERP, improving data accuracy by 65% and eliminating 300+ manual hours per quarter

Firmware Engineering Co-op | Infinera cooperation

January 2023-May 2023

San Jose, California

- Implemented embedded control firmware for high-reliability fiber optics and optoelectronic modules/sub-system controllers under the guidance of senior engineers
- Interfaced with FW DVT, optical test, system software test, and manufacturing test groups for test case development

Resident Advisor | University Housing

July 2023-Present

University of Cincinnati, Cincinnati, Ohio

- Mentored and engaged 50+ residents, fostering a vibrant and supportive campus community by promoting academic excellence, enforcing campus policies, and organizing initiatives that enhance student well-being and involvement

SKILLS

Programming: Python, C++, Java, SQL, Visual Basic, MATLAB, JavaScript, LabView

Development Methodologies: Agile, Scrum, Waterfall, Test-Driven Development, Git

Frameworks and Libraries: React, Flask, Next.js, PyTorch, TensorFlow, Keras, Scikit-learn, Flutter, Langchain, Pandas

Databases: MySQL, MongoDB, PostgreSQL

PROJECTS

AI Study Companion — RAG Web App | Personal Project

August 2025

- Built production-grade RAG study assistant (Next.js, OpenAI, pgvector) to chat with PDFs, using HyDE, RRF, LLM re-rank for grounded, cited answers
- Shipped a secure, multi-tenant platform (Supabase Auth+RLS, Storage), typed APIs, Tailwind UI, CLI ingest; Vercel deploys with cost/latency tuning + faithfulness eval

Breathe Healthy | Personal Project

November 2024

- Developed a responsive React 18 + Tailwind air-quality dashboard integrating OpenWeather APIs with Redux Toolkit, visualizing real-time AQI, pollutant metrics, and health advisories via D3/Chart.js; built global city search with EPA AQI map, forecasts, and educational workflows

MAKEUC | Hackathon Organizer

May 2024 – November 2024

- Organized MAKEUC hackathon by building a scalable KeystoneJS + Prisma backend with GraphQL API and an interactive Next.js 13/Tailwind UI, optimizing data fetching to boost performance and responsiveness.

ONLINE COURSES AND CERTIFICATIONS

Microsoft Certified: Azure AI Fundamentals | AI-900

September 2024

Google IT Support Professional Certificate

September 2022

Microsoft Certified: Power Automate RPA Developer Associate

May 2025

Available full-time from May 2026