Prince Michael Kemani

301-624-3539 | princemichaelkemani7@gmail.com | linkedin.com/in/pkemani | github.com/pkemani06

Education

University of Maryland, Baltimore County (UMBC) Baltimore, MD

*B.S. in **Computer Science & Mathematics, Meyerhoff Scholar** — GPA: **3.84*** *Aug. 2023 – May 2027*

- Member, **National Society of Black Engineers**; **CyberScholars Affiliate**; **Black Men's Society**

Technical Skills

Programming: Python, C/C++, Java, SQL, JavaScript, MATLAB, Haskell
Web Development: React.js, Node.js, Express.js, HTML/CSS, REST APIs, OAuth 2.0, JWT Authentication
ML / Data Science: TensorFlow, PyTorch, scikit-learn, Pandas, NumPy, Matplotlib, Hugging Face, Model Fine-tuning
Cloud & DevOps: Vercel, Render, Docker, AWS (EC2, S3, Lambda), GitHub Actions, CI/CD Pipelines
Tools & Platforms: Git/GitHub, Linux Terminal, FastAPI, Flask, Visual Studio Code, PyCharm
Core Competencies: Full-Stack Development, API Integration, Algorithm Design, Data Analysis, Technical Documentation

Research Experience

AI Research Student — Trustworthy AI Lab Jun. 2025 – Present

Rochester Institute of Technology (RIT) *Rochester, NY*

- Fine-tuned **large language models** and designed **Python evaluation pipelines** using **Google's Perspective API** to analyze toxicity and bias patterns across **10,000+ AI-generated text samples**.
- Built **data preprocessing and visualization tools** to assess guardrail robustness and behavioral trends across multiple AI architectures.
- Presented findings at **RIT Research Symposium (August 2025)** and contributed to **ongoing publication** on AI safety and bias mitigation.

Projects

Music Transfer — Full-Stack Web Application

- Developed full-stack web application enabling seamless playlist migration from **Spotify to Apple Music**, successfully transferring **100+ playlists** with **95% song matching accuracy**.
- Implemented **OAuth 2.0 authentication** and **JWT token generation (ES256)** for secure API access; built **Node.js/Express RESTful backend** with intelligent **rate limiting** handling **1000+ requests per session**.
- Designed responsive **React frontend** with real-time state management and deployed using **Vercel (CI/CD)** and **Render** with environment-based configuration for development and production separation.

SnapStudy — AI-Powered Study Assistant

- Led **4-person cross-functional team** in 24-hour hackathon to architect and deploy AI-powered study assistant using **React, Flask, and Google Gemini API**, achieving **40% improvement in study efficiency** through automated content analysis.
- Engineered **real-time PDF parsing system** with intelligent topic extraction and progress tracking, processing documents up to **100+ pages** with **sub-second response times**.
- Designed and implemented **scalable REST API architecture** with modular React components, enabling seamless integration of AI-generated study materials, flashcards, and personalized quizzes.
- Deployed containerized application on **Render using Docker**, authored comprehensive setup documentation, and coordinated team debugging sessions to ensure production readiness and feature integration.

Work Experience

Teaching Assistant, Calculus I Sep. 2025 – Present

University of Maryland, Baltimore County (UMBC) *Baltimore, MD*

- Support instruction for **60+ students**, reinforcing foundational concepts in limits, derivatives, and integrals through weekly recitations and office hours.
- Collaborate with professors to ensure **grading consistency** and provide individualized academic feedback, contributing to improved student performance and engagement.