Mohith Nagendra

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Education

University of Maryland, College Park – BS in Computer Science - Machine Learning — May 2025
Minor: Entrepreneurial Leadership — **GPA:** 3.72
QUEST Honors Program - Consulting for **Meta**, Dean's List, BigTh!nk AI, and Google Developer Student Club

Skills

Languages: Python, C++, Go, Rust, Java, Scala, TypeScript, JavaScript, Kotlin, Swift, C#, SQL, Shell Scripting
Libraries: PyTorch, TensorFlow, CUDA, MPI, NumPy, Pandas, Scikit-learn, Apache Spark, Ray, FastAPI, RAPIDS
Technologies: AWS, Docker, Kubernetes, React, Node.js, Git, Terraform, Redis, PostgreSQL, GraphQL, Apache Kafka
Open Source: Arctic Code Vault Contributor, enhanced nba-api with new endpoint (3,000+ stars)

Experience

Software Development Engineer, Amazon — August 2025 – Present
AI Software Engineer, PMG — June 2025 – July 2025
Graduate Leadership Program | Architecting AI Agentic Workflows
- Built meeting agent with OpenAI API to process 100+ hours of calls and automate summaries and follow-ups
- Developed client insights agent surfacing client-specific analytics, reducing reporting time by 60% across 50+ analysts

Software Engineer I, Allergan Data Labs (Abbvie) — September 2024 – May 2025
- Spearheaded backend infrastructure for Alle rewards platform supporting 9M+ users and 250K+ daily transactions
- Architected microservices in TypeScript and Go, reducing service latency by 40% and boosting system reliability
- Integrated ML models for personalized recommendations that increased user engagement by 35%

Machine Learning Engineer Intern, Oracle — June 2024 – September 2024
- Engineered fraud detection systems with Graph Neural Networks, improving detection accuracy by 27% over prior models
- Configured OCI Environment for ML model training that optimized data pipeline efficiency by 30%
- Developed flight ETA prediction model with 97% accuracy through feature engineering and ensemble ML techniques
- Deployed Graph RAG ticket system in a vector database cutting resolution time from 2–3 days to 1 day

Software Engineer Intern, Allergan Data Labs (Abbvie) — May 2024 – August 2024
- Created *Total Rewards Reminder* email campaign reaching 6.5M+ users and increasing platform engagement by 22%
- Crafted responsive email templates achieving 99.8% delivery rate through cross-platform compatibility testing
- Constructed Datadog monitoring dashboards for tracking email metrics and enabling proactive issue resolution

Full Stack Engineer, NitesOut — November 2023 – May 2025
- Built React Native ticketing app that eliminated service fees, reducing prices by 27% and increasing adoption by 40%
- Designed intuitive UI/UX and implemented secure payment processing API handling $50K+ in monthly transactions
- Automated event alerts through Firebase Cloud Messaging, boosting attendance rates by 18%

Machine Learning Engineer Intern, Airweb Digital — November 2023 – May 2024
- Engineered AI-based Traffic Analysis pipeline with OpenCV and PyTorch, processing 100+ hours of footage
- Formulated a visibility ranking model to optimize ad placement, enhancing workflow efficiency by 90%
- Presented technical findings to CEO and partners, translating complex ML concepts into actionable business insights

Full Stack Engineer, Cornell Tech (Break Through Tech) — December 2023 – March 2024
- Launched *SussanahAI* web app leveraging Cohere API for sentiment analysis, spam filtering, and text summarization
- Integrated Flask backend handling 500+ requests per minute while maintaining sub-200ms response times
- Designed interactive frontend using React and Tailwind CSS, resulting in 95% positive user feedback on UI/UX
- Collaborated with Microsoft engineer mentor to establish best practices in code architecture and documentation

Genome Computing Project Manager and Lead Researcher, UMD FIRE — August 2022 – August 2023
- Led research team analyzing DNA configurations using Python and R, improving analysis performance/accuracy by 25%
- Optimized genomic data processing workflows leveraging C++ and parallel computing, reducing execution time by 65%

Software Engineering and Robotics Mentor, FIRST — September 2023 – Present