MAYA MURRY

Full Stack Software Engineer | AI-Powered Product Development

Cornell University | B.Sc Computer Science | Class of 2025

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Professional Summary

Full-stack engineer passionate about democratizing technology through intuitive user experiences. Lead developer building AI-powered healthcare platform using React/TypeScript, transforming months-long medical processes into solutions.

Technical Skills

- Frontend: React, TypeScript, React Native, React Hooks, JavaScript, HTML5, CSS3, GraphQL
- Backend: Node.js, Python, Django, Flask, FastAPI, RESTful APIs | AI/ML: Azure OpenAI, LangChain, TensorFlow, PyTorch
- Development: Git, Docker, AWS, CI/CD, Performance Optimization | Databases: PostgreSQL, MongoDB, MySQL, GraphQL

Professional Experience

Lead Full-Stack Developer | PainTrust Technologies *(Pre-seed Healthcare Startup)*

Jun 2025 - Present | New York, NY

- Drive full-stack feature development from conception to deployment, leading core product initiatives that democratize objective pain assessment for healthcare providers through React/TypeScript frontend and Node.js backend architecture
- Collaborate with experienced product designers to create intuitive camera-based diagnostic interfaces, enabling non-technical medical professionals to conduct complex pain assessments through simple interactions
- Build scalable applications featuring real-time data processing at 60fps, complex state management with React Hooks, and cross-platform compatibility, transforming months-long diagnostic workflows into one-click solutions

Healthcare Software Developer | Life History Lab, Cornell University

Feb 2023 - Jan 2025 | New York, NY

- Developed computational pipelines using Python, GraphQL, and statistical modeling to analyze 10K+ complex datasets, enabling interdisciplinary researchers to focus on insights rather than technical implementation
- Built React-based research tools with TypeScript interfaces that made complex epigenetic analysis accessible to teams with varying technical backgrounds, improving collaboration across psychology, genomics, and neuroimaging domains

Full-Stack Software Engineer | PricewaterhouseCoopers LLP

May - Aug 2024 | New York, NY

- Engineered AI-powered automation frameworks using React frontend with LangChain/Azure OpenAI integration, reducing manual healthcare compliance processes by 25% for enterprise clients through semantic search and natural language interfaces
- Collaborated with cross-functional teams during in-person client programming sprints to implement semantic search systems with GraphQL APIs and RAG architecture, enabling non-technical insurance professionals to query complex regulatory databases

Financial Operations Engineer | National Association of Investment Companies (NAIC)

Jun - Aug 2023 | Washington, DC

- Built interactive analytics dashboards synthesizing PitchBook market data for 50+ member firms, creating accessible interfaces that identified $2B+ allocation opportunities for non-technical investment professionals

Machine Learning Developer | University of Maryland

Jun - Aug 2022 | College Park, MD

- Developed privacy-preserving AI systems achieving 92% effectiveness in protecting user identity while maintaining model performance, co-authoring research on algorithmic bias in facial recognition systems with professors and PhD candidates

Education

- Cornell University | College of Engineering | B.Sc Computer Science | GPA: 3.62 | May 2025
- Dean's List (2022, 2024, 2025) | McMullen Dean's Scholar | D1 Women's Wrestling
- Coursework: Advanced Algorithms, Machine Learning, NLP, AI Practicum, System Design
- Engineering Research Grant (2025) | Bowers Tapia Award (2024) | NAIC Lead Intern Award (2023)

Key Projects

Computer Vision for Biomedical Research | University of Pennsylvania & The Miami Project To Cure Paralysis

- Developed convolutional neural networks using TensorFlow and DeepLabCut for behavioral analysis across two research domains: disrupted sleep pattern recognition for psychiatric stress markers and paralysis recovery quantification under kinase treatment
- Technologies: Python, TensorFlow, DeepLabCut, Computer Vision, Behavioral Analysis | Impact: 67% improvement in therapeutic evaluation, provided key analytic tools for multiple research labs

Epigenetic Markers of Psychiatric Trauma | Computational Genomics Course

- Developed Non-Homogeneous Hidden Markov Models (NHMMs) to identify DNA methylation data in PTSD datasets
- Technologies: Python, Hidden Markov Models, Genomic Analysis | Impact: Novel computational framework for trauma research