Tanika Jangam

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Education

University of Maryland College Park, MD
Bachelor of Science in Computer Science and Mathematics Expected May 2026
Relevant Coursework: Object Oriented Programming I & II; Algorithms; Discrete Structures; Computer Architecture; Programming Languages; Advanced Calculus I & II; Applied Probability & Statistics; Linear Algebra
GPA: 3.76/4.0

Experience

Vanguard May 2024 – August 2024
Cloud Engineering Intern Malvern, PA

- Automated AWS resource deployment by developing Lambda functions for custom authorizers and pre-validation scripts, enhancing security and deployment efficiency using Python and CloudFormation
- Provided technical support for client incidents hosted on AWS ECS, EKS, and CaaS, ensuring swift resolutions
- Led weekly meetings to optimize GitHub CI/CD pipelines, resulting in a 10% boost in deployment speeds

HP Tech Ventures February 2024 - April 2024
Business Analyst and Venture Capital Extern Remote

- Conducted market segmentation and financial modeling in RStudio to identify key drivers of start-up funding, presenting insights through impactful Tableau visualizations to guide investment decisions
- Analyzed large datasets using Excel and SQL to extract trends and derive actionable summary statistics
- Pitched and advocated for investment in an AI start-up specialized in presentation content generation, diversifying HP Tech Ventures' AI portfolio

Project Management Institute of Technology (PMIT) June 2021 - May 2022
Software Engineer Princeton, NJ

- Optimized backend services with Node.js and SQL to ensure high availability and performance of the PMIT website
- Led cross-functional meetings and collaboration to drive website improvements, supporting key objectives

Projects

Notifly: Student Note-taking App 2nd Place at ThetaHacks

- Engineered a speech-to-text notetaking application to improve accessibility and organization for students
- Integrated Speech Recognition API to create real-time transcriptions with 95% accuracy
- Implemented a scalable backend through MongoDB and ExpressJS, ensuring seamless data storage and retrieval

Plantify: Plant Disease Classifier

- Developed a deep learning model using PyTorch and convolutional neural networks (CNN) to classify 39 plant leaf diseases, achieving 95% accuracy by training on 6,000+ labeled images
- Designed and launched a Flask-based web application with Jinja templates and CSS, allowing users to upload plant leaf images for real-time disease detection and treatment recommendations

Certifications/Awards

AWS Cloud Developer Associate Certification August 2023
AWS Cloud Solutions Architect Associate Certification July 2023
University of Maryland President's Scholarship May 2022
U.S. Computing Olympiad: Gold Division December 2021

Technical Skills

Languages: Python, Java, C, JavaScript, TypeScript, Node.js, R, HTML/CSS, SQL, MongoDB, Bash/Shell Scripting

Technologies: AWS Lambda, AWS ECS/EKS, Kubernetes, Docker, Linux, Flask, ExpressJS, GitHub, Tableau