

Tanika Jangam

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Education

University of Maryland

Bachelor of Science in Information Science, Minor in Mathematics

College Park, MD

Expected May 2026

Notable Coursework: Dynamic Web Applications, Database Design Modeling, Data Science Techniques, Cybersecurity

Extracurriculars: Crochet for a Cause Co-President, UMD Girls Who Code Software Engineering Team Lead, Terrapin Beats Society, Statistics for Information Science Undergraduate Course Aide

Experience

Appian

Software Engineering Intern

June 2025 – August 2025

McLean, VA

- Engineered a core Java pipeline to transform linear process model inputs into an optimized Agent Event Tree, **reducing LLM query depth by 40%** while enabling AWS Bedrock agents to autonomously execute agentic workflows
- Built document-awareness for Appian's agentic chatbot by integrating LLM semantic search and retrieval across document record types, **boosting contextual accuracy by 15%** for structured filtering queries
- Applied test-driven development (TDD) using JUnit unit tests and Spring Boot integration tests to identify **30+ Bedrock LLM edge cases** prior to deploying agentic-AI workflow

Vanguard

Cloud Engineering Intern

May 2024 – August 2024

Malvern, PA

- Automated AWS resource deployment** by developing Python/Terraform Lambda functions for OIDC-based custom authorization and SigV4 request validation, **eliminating manual provisioning** for AWS EC2/S3 client requests
- Provided Tier-1/Tier-2 support for 150+ client incidents** on AWS ECS/EKS, Kubernetes clusters, and Docker containers leveraging Grafana monitoring to diagnose pod deployment failures and orchestration issues
- Led migration from Bitbucket/Bamboo to unified GitHub Actions CI/CD pipeline, consolidating separate build and deployment workflows while **boosting deployment speeds by 10%**

HP Tech Ventures

Business Analyst and Venture Capital Extern

February 2024 – April 2024

Remote

- Analyzed 500+ Series-A startups using SQL and Apache Spark**, identifying key funding drivers and visualizing trends in Tableau to inform HP Tech Ventures' investment strategy

Projects

RAG for Efficient Context Window in Amazon Q - Appian Intern Hackathon Winner

- Engineered a RAG system for Amazon Q using Pinecone vector embeddings to retrieve similar Jira tickets, reducing context windows and **accelerating codebase searches by 40%**
- Integrated GitHub/GitLab PR data** via REST APIs and Lambda functions to enrich Jira tickets with code context, enabling automated pattern recognition across repositories
- Deployed an EC2 listener** to capture incoming Jira tickets in real-time, using Redis to cache frequently accessed tickets

fMRI VR: 3D Brain Scans - Top 10 at HopHacks

- Built a React/Next.js web portal with Google OAuth and PostgreSQL**, allowing neuroscience researchers to securely upload, store and organize fMRI neuroimaging data with automated BIDS-compliant file organization
- Developed immersive VR visualizations in Unity (C#)** to render 3D brain scans from fMRI data, displaying voxel-based structures and time-series electrical activity patterns

Certifications/Awards

AWS Certified Machine Learning Engineer - Associate (2025) | AWS Certified Solutions Architect - Associate (2023) | AWS Certified Cloud Developer - Associate (2023) | University of Maryland President's Scholarship (2021)

Technical Skills

Languages: Java, Python, TypeScript, JavaScript, C#, R, HTML/CSS, SQL, Bash/Shell

Technologies: Amazon Web Services, Kubernetes, Docker, GitHub, React, Next.js, Unity, Spring Boot, Tableau, Apache Spark, Pinecone, Redis, MongoDB, PostgreSQL