

Tanvi Ranade

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EDUCATION

Johns Hopkins University

Baltimore, MD

B.S./M.S.E. in Computer Science and Biomedical Engineering | GPA: 3.96/4.00

August 2022 – May 2026

- Courses: Data Structures (TA), Algorithms (TA), C/C++ Programming (TA), ML: Deep Learning, AI System Design, Human Language Technology, Databases, Full-Stack JS, Discrete Math, Linear Algebra, Prob/Stats
- Activities: Women in Computer Science (President), ACM, Kesem (Operations Coordinator), Blue Jay Bhangra

EXPERIENCE

Machine Learning Engineer Intern

September 2025 – Present

Bayesian Health (Series A Startup for Clinical AI)

New York, NY

- Analyze current model performance for multi-episode sepsis predictions using SQL, Pandas, and NumPy
- Train and evaluate various model architectures built with PyTorch, to improve detection for later sepsis onsets

Software Development Engineer Intern

May 2025 – August 2025

Amazon Web Services

Seattle, WA

- Automated AWS Redshift monthly availability reports intended for senior leaders; reduced tedious efforts by 40%
- Developed 1-click report generation tool that extracts relevant performance data, analyzes Redshift issue tickets, and produces overview & cluster-level insights using Strands Agents and MCP servers, saving devs 2-3 days/month
- Created centralized web platform for SDEs to execute pipelines, customize multi-agent architecture, and inspect data inputs/evaluated report outputs; integrated with auto-publishing to Quip and Slack via Webhooks

Software Engineering Intern

May 2024 – August 2024

Aryn (Seed Startup for Document Intelligence)

Mountain View, CA

- Contributed open-source code to core repository targeting data-processing & semantic LLM operations to answer analytics questions on unstructured data; achieved 72% accuracy on query planning/execution of 5-7 step queries
- Created software using Python; utilized AWS, Docker, OpenSearch, Sycamore and OpenAI APIs for development
- Co-authored a [technical systems paper](#) on LLM-based unstructured data analytics, presented at CIDR 2025

Full-Stack Software Developer

February 2024 – May 2025

Semester.ly

Baltimore, MD

- Improved course scheduling platform serving 6,000+ students, enabling semester planning from 10,000+ courses via JHU Student Information System API; core developer on team of 5 for enhancing open-source code library
- Steered projects on increasing usage of student course ratings and an AI-powered course recommendation system
- Utilized TypeScript, React functional components, React-Redux hooks, Redux Toolkit, and Django REST APIs

Research and Development Engineering Intern

June 2023 – January 2024

CurveAssure (Pre-seed Startup)

Baltimore, MD

- Created 3-D demo platform using Python and Blender to illustrate real-time wearable spine/limb sensors movement of a person, serving to aid in tracking and locating spinal injuries; shown at two showcases with 400+ people

LEADERSHIP

President | Women in Computer Science at JHU

June 2024 – May 2025

- Managed organization of 40+ active undergraduates and 300 alumni members; organized professional development and social events with responsibilities of communicating with administrators, exec/general members, and sponsors
- Partnered with companies like Bloomberg and Google for career panels and networking events of 80+ attendees

Technical & Organizational Team Leader | BME Undergraduate Design Team

January 2024 – May 2025

- Led team of 8 for early-detection of diabetic foot ulcers project, guiding problem definition, ideation/prototyping, and solution conceptualization; comprehensive documentation for design history files of over 30 pages each quarter

TECHNICAL SKILLS

- **Languages:** Proficient in Python, Java, C/C++, JavaScript, TypeScript, SQL, x86-64 assembly language, and Arduino
- **Website/Mobile App Development:** Experience with React, HTML, CSS, Node.js, Express.js, and Nest.js
- **Tools and Technologies:** Adept at using Docker, Amazon Web Services (AWS), Google Firebase, OpenSearch, API calls, Figma for design, Git/GitHub for version control, and IDEs Visual Studio Code, Cursor, and IntelliJ IDEA
- **Data Science:** Skilled in ML techniques and analysis for multimodal datasets using PyTorch, NumPy, and Pandas