Tanvi Ranade

+1 (407) 797-5140 | tranade1@jhu.edu

linkedin.com/in/tanvi-ranade

EDUCATION

Johns Hopkins University   Baltimore, MD

Bachelor of Science | GPA: 3.93   Expected May 2026

- Majors: Computer Science and Biomedical Engineering
- Relevant Coursework: Data Structures in Java (Course Assistant), Intermediate Programming in C/C++ (Course Assistant), Full-Stack JS, Computer System Fundamentals, Math Foundations for CS, Linear Algebra, Prob/Stats

SKILLS

- Proficiency in Python, Java, C/C++, Arduino, and x86-64 assembly language for projects and research such as asteroid orbit determination at the Summer Science Program
- Familiarity with React, JavaScript, TypeScript, HTML, CSS, Node.js, Express.js, and Nest.js for full-stack software development for projects including making customized websites for six non-profit organizations
- Experience with Git/GitHub for version control, IDEs Visual Studio Code and IntelliJ IDEA, and Linux

PROJECTS

HOYA HACKS   Washington, D.C.

PlatePal: Full-Stack Web Application   Spring 2024

- Built a multi-page website with four undergraduates in 36-hour competition targeting 220M tons of food waste on college campuses by facilitating unwanted groceries exchange among students and giving AI-suggested recipes based on existing inventory items; Developing additional features post-hackathon
- Constructed frontend with HTML, CSS, and JavaScript, and backend using Express.js, Node.js, MySQL, and OpenAI's API
- Won 1st place in Environmental Track sponsored by Engie and 1st place for Best Domain Name from GoDaddy Registry

DEARYOU HEALTH   Washington, D.C.

MindMatch: iOS/Android Mobile App   January 2024 - Present

- Collaborate with cross-functional tech board to develop a platform dedicated to providing mental health support to over 60% of high-school and college students and support with a strong emphasis on community engagement features
- Construct multi-platform app with Expo with React Native for frontend and Google Firebase for backend to easily integrate with AI models in future for matching between clients and counselors

EXPERIENCE

CENTER FOR BIOENGINEERING INNOVATION AND DESIGN   Baltimore, MD

Undergraduate Design Team Leader   January 2023 - Present

- Address problem of clogging catheters in Interventional Radiology and biased sedation scores in the Pediatric Intensive Care Unit with teams of undergraduates, faculty, and clinicians; research and ideate solutions based on precedents; shadow at the Johns Hopkins Hospital to understand workflow, observe patients, and interview 20+ healthcare professionals
- Analyzed large databases with Python tools, conducted studies through IRB, and documented engineering process; secured $100K through prestigious Johns Hopkins Discovery Award and raised an additional $3K from various awards and grants

WOMEN IN COMPUTER SCIENCE AT JHU   Baltimore, MD

Events Chair   August 2023 - Present

- Organize professional development and social events with responsibilities of communicating with administrators, board/general members, and sponsors; brainstorming, planning, and hosting events including weekly general body meetings; securing event spaces; reaching out to potential collaborators; and managing club calendar
- Partner with companies (e.g. Google, Bloomberg) and on-campus organizations (e.g. ACM) for internship/research panels and career-oriented talks with 80+ attendees

CURVEASSURE (STARTUP)   Baltimore, MD

Research and Development Engineering Intern   June 2023 - February 2024

- Developed pipelines to handle real-time data from six Bluetooth devices; leveraged Python scripting within Blender to visually reflect movements from wearable spine/limb sensors to create demo platform shown at two showcases (400+ people)
- Analyze spinal institution datasets to classify essential information by frequency for future company use and author informative summary documents for reference; design visually appealing data displays for clinicians and convert to JS scripts to display on company website; use Arduino to program tests for measuring current draw from various sensor components