

## Tanvi Ranade

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### EDUCATION

#### Johns Hopkins University

*Bachelor of Science* / GPA: 3.93

Baltimore, MD

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 on a team of four 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