Arshia Garg

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Education

Rutgers University, New Brunswick   GPA: 3.8/4.0   Expected Graduation: May 2027

Bachelor of Science in Computer Science and Data Science, Minor in Cognitive Science
Relevant Courwework: Software Development, Data Structures, Calculus I/II, Linear Algebra, Discrete Structures, Computer Architecture

Skills

- **Languages:** Java, Python, C++, C, HTML, CSS, Javascript, Bootstrap, Matlab, React
- **Certifications:** Microsoft Azure AI Fundamentals, OCI Generative AI Professional
- **Developer Tools:** VS Code, Eclipse, Git, PyCharm, IDLE, Azure Cloud, MongoDB, Jupyter Notebook

Experience

Robert Wood Johnson Medical School, Department of Neurobiology   October 2024 - Present
Data Analysis Research Intern
- Perform computational analyses of CZI microscopic cell scans for Parkinson's Disease and identify genes that carry variants that increase the risk for development of the disease using Github, Python, and Jupyter Notebook
- Incorporate an AI model to detect cells and inclusions based on image brightness and blurriness
- Collaborating with medical research assistants in time-sensitive wet lab experiments
- Testing thresholds for detecting cell inclusions and other neurodegenerative diseases in microscopic cell scans

Rutgers Department of Computer Science   January 2025 - Present
Data Structures Tutor, Part-Time
- Provided academic support for over 1000 students in Intro to CS and Data Structures courses at Rutgers University.
- Fostered an inclusive community, encouraging diverse student identities in the CS program.
- Collaborated with instructors and learning assistants to guide students in advancing their knowledge in the programming field

Goldman Sachs   January 2025 - Present
Engineering Possibilites Summit
- Engage in a highly selective year long program focusing on Software Engineering, Cybersecurity and Quantitative Strategy
- Collaborate with Goldman Sachs engineers to explore cutting-edge engineering practices and increase company revenue
- Developed analytical skills through financial analysis, calculating Net Asset Valuation (NAV), and unitizing financial data
- Utilized Excel for detailed credit risk analysis, data validation, and trend analysis, leading to accurate financial reporting

Girls Who Code, College Loops   December 2024 - Present
Rutgers Branch President
- Collaborate with industry professionals, faculty, and student organizations to provide career development resources
- Organize and facilitate workshops, speaker events, and networking opportunities to empower members with technical and professional skills
- Manage executive board operations, ensuring effective initiatives, outreach, and membership engagement coordination
- Developed a cryptography encoder and decoder using Python, presented projects to mentors, and collaborated with other girls in the selective program on team projects

Projects

VisualEyes (Python, Azure AI, Raspberry Pi, SQL)
- Presented in front of an international panel of judges and awarded as a World Finalist in Innovation by the FRC organization
- Application aiming to assist the visually impaired with navigation and object recognition in their immediate surroundings
- Incorporated an advanced AI-based object recognition system powered by ultrasonic sensors and cameras mounted on a hat
- Transmitted data to an app equipped with customized instructions, accessibility features, and a multitude of security measures.

SkinSense (Python, AWS, Flask, Google Places API, Groq, YOLO, React, Typescript, EC2, S3)
- Presented to a panel of Health Industry judges and awarded $250
- By leveraging advanced image recognition with YOLO, SkinSense can accurately screen patient-uploaded images to differentiate various skin conditions, with a primary focus on identifying Monkeypox
- Our main focus relies on whether the image is MonkeyPox or not, and then our two trained models allow us to further examine the skin condition, such as cysts or acne, and recommend nearby dermatologists

VaxFax (Python, HTML, CSS, JavaScript, APIs, Flask)
- Presented in front of UPenn alumni and a panel of judges and awarded Best Health Policy Hack at an international hackathon hosted by UPenn Wharton
- A website with a focus on spreading correct medical information using API libraries for location-specific vaccination regulations, coverage, and mandates