Rayyan Saleh

ray.saleh67@gmail.com ⋄ Phone: 571-242-2581 ⋄ GitHub ⋄ LinkedIn

Education

Old Dominion University   Norfolk, VA
M.S. Computer Science | GPA 3.7   Aug 2023 – May 2025
B.S. Computer Science | GPA 3.2   Aug 2020 – May 2024

Professional Experience

Old Dominion University   Norfolk, VA
Graduate Teaching Assistant   09/2021 - Present
- Assisted students with developing research topics, organizing papers, and understanding key concepts in research methodology.
- Reviewed written assignments and presentations, offering feedback to improve clarity, structure, and academic quality.
- Collaborated with faculty to streamline course operations, including managing assignments, organizing resources, and addressing student inquiries.

Old Dominion University   Norfolk, VA
Computer Science Tutor   03/2022 - 08/2024
- Provided one-on-one and group tutoring sessions in C++, Java, Python, SQL, and HTML/CSS, helping students build strong foundations in software development and debugging techniques.
- Guided students through complex programming assignments and capstone projects, emphasizing clean code practices, algorithmic thinking, and effective problem-solving strategies.

National Science Foundation   Miami, FL
REU   05/2022 - 08/2022
- Developed and tested Python-based software components for research on blockchain-integrated IoT systems, applying principles of secure and scalable design.
- Engineered enhancements to the selfish mining algorithm that increased its simulated effectiveness by 80%, contributing to advanced research in blockchain security vulnerabilities.
- Optimized blockchain processing efficiency by refining consensus-related code paths, resulting in a 35% improvement in block validation throughput in simulated environments.

Chick Fil a   Ashburn, VA
Team-Leader   06/2019 - 12/2022
- Led daily operations in a fast-paced restaurant environment, ensuring smooth functionality across all departments and maintaining high service standards.
- Acted as the primary point of contact for operational issues and customer concerns, consistently resolving complaints quickly and professionally.

Technical Skills

Coding languages: C++, Python, Java, JavaScript, C#, C, HTML/CSS,
Frameworks: Bootstrap, Django, .NET
Developer Tools: Git Bash, Git, GitHub, Visual Studio Code, Visual Studio, OBS Studio, Microsoft Office 365, OpenRefine
Interests: Financial Market, Computer Assembly, Yolo V7, Machine Learning, Full-Stack Development

Projects

- **Personal Website Portfolio:** Designed and developed a responsive personal portfolio website using HTML, CSS, and JavaScript to showcase projects and skills. Hosted on GitHub Pages for easy access and continuous integration.
- **Image Recognition Task Automation:** Built a bot using Python, OpenCV, and PyAutoGUI that performs automated screen actions based on visual input.
- **QR-Code Generator:** Developed a tool using Python that creates QR codes for URLs and text input with real-time UI.
- **Blockchain IoT Research:** Collaborated on securing IoT devices using blockchain and deep learning during NSF REU.