

ZYANYA ISABELLA RIOS

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Detail-oriented and proactive Computer Engineering student at UC San Diego with a keen interest in computer software and hardware development within a collaborative team environment, with proficient experience in Java and driven to contribute to innovate solutions that benefit the company and its users.

EDUCATION

Bachelor of Science – ECE: Computer Engineering University of California, San Diego Jun 2027

SKILLS

Language| English, Spanish

Front End| JavaScript, CSS, HTML

Back End| Java, C, C#, MySQL, Python, Assembly

Testing/Deployment| Junit

Developer Tools| Git, Unity, Roblox Studio, Netlify

Microsoft Office 2016 Certified| PowerPoint, Word, Excel

EXPERIENCE

Prison Project Research Assistant | UCSD Student Research Lab Apr 2024 – Aug 2024
Researcher for computer science education in prison systems Python | Pandas | Matplotlib | SIGCSE

- Co-authored a research paper accepted into the SIGCSE Technical Symposium 2025 program, showcasing key findings from the project
- Developed a comprehensive framework for studying computer science education in prison systems, emphasizing the importance of centering the voices and perspectives of justice-impacted individuals with advisors and fellow researchers
- Analyzed and visualized qualitative data responses from 23 justice-impacted students using Pandas and Matplotlib

Computer Science Instructional Design Assistant | UC San Diego, La Jolla, CA Jun 2024 – Present
Instructional Designer for computer science education courses K-12 Coursera | Research | Project Management

- Implemented course material on new learning platform with Coursera and enhanced digital learning experiences for 5 UC San Diego Computer Science Education courses, with 500 student enrollments
- Researched and introduced technology material for newly redesigned course EDS 124AR; Introduced topics such as: AI in Society, Cyber Security, Climate/Energy Consumption & Technology, Algorithmic Bias, and Robotics

Programming Instructor | Code Ninjas, Chula Vista, CA Nov 2021 – Aug 2022
Programming instructor for children developing video games JavaScript | Python | Lua | C# | Unity

- Mentored over 40 students in programming C# with Unity Engine and Lua in Roblox Studio, all students finished with a complete video game to present by end of program
- Implemented differentiated learning strategies for diverse student groups, enabling 90% of participants to grasp full stack development fundamentals, while enhancing overall class participation and collaboration among peers

Computer Refurbishing Volunteer | C2K, San Diego, CA Dec 2023 – Present
Volunteer for non-profit providing computers to low-income families Hardware Testing | Refurbishing

- Provided software support and refurbished hardware (desktops, laptops, mobile devices) for children and families, ensuring functionality and distribution across 25+ hours

Vice President of Programming | UC San Diego ColorStack, La Jolla, CA Jul 2024 - Present

- Co-founded and launched the first chapter of ColorStack at UC San Diego, establishing a growing community of Latino and Black engineers, with 50 current members
- Lead group initiatives to programming, engineering, and networking events for the club such as General Body Meetings and workshop event with Expedia

AWARDS & CERTIFICATES

National Cyber Security Award 2023
Awarded to the highest-scoring eligible CyberStart players from CyberStart America and Cyber FastTrack 2022-2023

- Winners of this award were ranked in the top 7% of players nationwide, scholars were awarded a training scholarship to cover the SANS Foundations course

Cisco Certified Support Technician Cybersecurity, IT - Specialist Cybersecurity 2023

- Cybersecurity certification validating the essential knowledge necessary to demonstrate work-ready cybersecurity skills. Skills Include: Incident handling, cybersecurity auditing and analysis, network security concepts, and vulnerability assessment