Alexander Torres Vivaldo

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https://github.com/AlexDaGreat555

EDUCATION

Carnegie Mellon University   Pittsburgh, PA
Bachelor of Science in Information Systems, Minor in Human-Computer Interaction, GPA: 3.20   05/2027
Relevant Coursework: Application Design & Development, Principles of Imperative Computation, Database Design & Development, Designing Human-Centered Software, Information Systems Milieux, Methods for Statistics & Data Science

TECHNICAL SKILLS

Programming: Python, JavaScript, Java, HTML/CSS, C#, C, SQL, Ruby, R
Technical: Linux, Git, GitHub, React, Rails, PostgreSQL, MongoDB, Figma
Certifications: Google Cybersecurity Professional Certificate (In Progress)

PROJECTS

Discord Database Design & Development (SQL, PostgreSQL, Python, Databases)
- Reengineered the early stages of Discords database by incrementally transforming ten user stories to conceptual and physical model to develop and initialize the database via PostgreSQL
- Developed and executed ten user stories using advanced SQL queries, triggers, and functions to ensure database integrity and support business requirements

Macro Calculator Hackathon (HTML/CSS, JavaScript, API)
- Demonstrated full-stack development skills by debugging HTML/CSS for UI design and integrating Nutrition API for macronutrient calculations
- Led and collaborated with team by coordinating deadlines and tutoring teammates in Git and source control, enabling us to complete the application within 24-hour hackathon

Say it with Sweets Website (HTML/CSS, JavaScript, jQuery, API, User Testing)
- Designed and developed a website for small business in Pittsburgh, tailoring it to the client's needs and significantly improving user experience based on user testing results
- Built a responsive, interactive interface using HTML, CSS, JavaScript, and jQuery, ensuring seamless accessibility

Microsoft Paints Program (Python, OOP, Debugging)
- Developed a canvas painting program within two-week timespan, utilizing top-down design and object-oriented programming to enhance efficiency and meet deadline
- Maintained neat and well-organized code, which facilitated overcoming bugging issues and streamlined the debugging process

WORK EXPERIENCE

Information Systems Milieux   Pittsburgh, PA
Teaching Assistant   01/2025 – Present
- Assisted during web development & database labs, delivering hands-on support to students on coding challenges and debugging
- Facilitated TA office hours, offering technical guidance on SQL queries, databases, web development, and JavaScript functionalities to enhance student understanding

LEADERSHIP AND PROFESSIONAL DEVELOPMENT

Management Leadership for Tomorrow   Washington, DC
Career Preparation Fellow   01/2025 – Present
- Accepted into a selective 18-month professional development program for high-achieving diverse talent
- Complete business case studies and assignments to grow leadership and technical skills
- Attend conferences hosted by industry leaders, such as Deloitte, LinkedIn, and Target

Society of Hispanic Professional Engineers   Pittsburgh, PA
Member   08/2023 – Present
- Contributed to community-building among Hispanic STEM students and participated in professional development experiences such as attending conferences, and resume and interview workshops

Emerging Leaders   Boston, MA
Participant   01/2024 – 04/2024
- Collaborated with local community service partners to enhance refugee youth support by proposing and pitching CMU tutoring and mentorship programs, developing structured timelines to ensure effective implementation