

# Alexander Torres Vivaldo

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## 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

Pittsburgh, PA

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