

Kory Sanchez

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EDUCATION

University of Pittsburgh, School of Computing and Information

Pittsburgh, PA

Bachelor of Science in Computer Science

May 2025

Minor in Economics | Certificate in American Sign Language

3.44 GPA

PROJECTS

Safe Space | YOLOv8, Python, Google CoLab, React, Node, Flask, MongoDB

2 First Place Hackathon Tracks

- Trained a Machine Learning model to detect OSHA violations on real-time video footage to identify unsafe practices
- Fine-tuned model performance by 20% by adjusting hyperparameters and sourcing proper validation datasets
- Designed a React dashboard connected to a flask backend to help managers visualize and track violation data

Machine Learning Pipeline | AWS, Terraform, Kafka, Docker, Pytorch, Pandas

- Architected an end-to-end ML pipeline to predict power grid usage, ensuring scalable and maintainable infrastructure
- Integrated Kafka for real-time data streaming, enabling sub-second response to users that can scale with higher loads
- Deployed a model training system on AWS, optimizing efficiency and ensuring seamless operation for CI / CD

LEGO Collection Database | BeautifulSoup4, REST API, Notion API, Python

- Developed a custom database to manage my LEGO collection, automating inventory retrieval and organization
- Built a web scraper to get LEGO piece data, using Notion API to populate the database, saving hours of manual labor
- Streamlined collection organization with automated workflows, reducing time spent searching for specific pieces

korysanchez.me | Cloudflare, Flask, Nginx, Linux, JavaScript, HTML/CSS, Python, Raspberry Pi

- Built a portfolio website with full-stack features to showcase personal projects and to host personal tools and content
- Deployed the site on my Raspberry Pi using Nginx, gaining experience with server setup and Linux administration
- Leveraged Cloudflare services for DNS routing, SSL encryption and caching, maintaining reliable access and security

Pixelstellar | Rust, Bevy

- Engineered a game in Rust, creating a performant, infinitely generated worlds, using modular, scalable frameworks
- Directed a 7-person team to guarantee project milestones were met consistently by utilizing the Scrum framework
- Orchestrated Git workflows to manage code contributions, maintaining continuous integration and stable releases

WORK EXPERIENCE

Red Spark Technology | Ground Service Technician

April 2022 – Present

- Conduct installation of 150+ security cameras, Wi-Fi access points, and other tech equipment in 25+ jobs
- Perform 40+ services in diverse settings, adapting to customer needs while ensuring quality and satisfaction

Eat N' Park | Food Server

February 2021 – Present

- Exceed customer satisfaction, serving 75+ customers daily through 100% order accuracy and fast delivery times
- Adapt to 4 roles as needed to ensure efficient operations, including takeout, cooking, and managerial tasks

LEADERSHIP EXPERIENCE

Zeta Beta Tau Fraternity | Constitution Chair / Apparel Chair

January 2025 -- Present

- Directed organization in collaboration with 8 executive members, improving operation efficiency and chapter growth
- Organized 10 philanthropy and community service events, bringing 100+ attendees and engaging community impact

Computer Science Club | Member

February 2022 – Present

- Honed experience in the computer science industry and insights through professional development opportunities
- Collaborated with members, professors, and professionals in the Computer Science sphere to professionally develop

Boy Scouts of America | Attained rank of Eagle Scout

March 2011 – February 2021

- Led and mentored 30+ younger scouts in 6 different leadership positions, fostering personal development
- Supervised a \$2,000+ land recovery project for a local church, managing donations and timelines during COVID-19

SKILLS AND RELEVANT COURSES

Technical Skills: Machine Learning, AWS, Apache Kafka, Docker, REST APIs, Flask, Nginx, C, Python*, Rust, Java, React, Node, JavaScript, SQL, HTML/CSS, Linux, Cloudflare, Git, Notion*, MS Excel

Relevant Courses: Algorithms & Data Structures, Systems Software, Database Management Systems, Principles of Game Design, Computer Graphics, Computer Networking, Web Applications Programming