Kory Sanchez

sanchezkoryt@gmail.com | (412) 414-4176 | linkedin.com/in/korysanchez | github.com/korysanchez | korysanchez.me

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

korysanchez.me | Docker, Docker Compose, CI/CD Cloudflare, React, Flask, Nginx, Linux, JavaScript
- Built a full-stack portfolio website with React and Flask to showcase personal projects and host other personal tools
- Deployed containerized development environment, implementing development and production builds and hot-swap
- Leveraged Cloudflare services for DNS routing, SSL encryption and caching, maintaining reliable access and security

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

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