Kory Sanchez

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EXPERIENCE

Gumpher Inc. | Integration Engineer   **August 2025 – Present**
- Automate workflows and implement software to save 55+ hours/week by leveraging existing tools for new solutions
- Implement automated data pipelines that deliver actionable executive insights using Python, SQL and PowerShell
- Lead IT operation by managing computer systems, devices and software, supporting system reliability company-wide

CGI (University of Pittsburgh Capstone) | Software Engineer   **January 2025 – April 2025**
- Architected an end-to-end ML pipeline to predict power grid use, delivering 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

Red Spark Technology | Ground Service Technician   **April 2022 – May 2025**
- Conducted installation of 150+ security systems, network infrastructure and low-voltage technology in 50+ jobsites
- Performed 40+ services in diverse settings, adapting to each customer's needs while ensuring quality and satisfaction
- Streamlined jobsite workflow to boost productivity and efficiency through organization and time management

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

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

SKILLS

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

EDUCATION AND RELEVANT COURSES

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

LEADERSHIP

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

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