Param Sangani

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LinkedIn

EDUCATION

Saint Louis University (SLU), *St. Louis, MO*

Ph.D. in Computer Science	August 2023 – May 2028
Master of Health Care Administration	August 2022 – May 2023
Bachelor of Arts in Health Care Administration	August 2018 – May 2022
Computer Science Minor	

Selected Coursework: Computer Security(2023), Software Development(2023), Machine Learning(2022), Computer Ethics(2024), Algorithms (2024), Cyber Threats and Defense (2023), Object-Oriented Programming (2020), Discrete Mathematics(2019), Bioinformatics (2019), Health Operations Management(2022), Health Information Systems (2022)

EXPERIENCE

Saint Louis University, St. Louis, MO

Graduate Teaching Assistant - Course: Principles of Software Development   January 2024 – Present
- Assisted in managing a software development course with over 70 students, delivering weekly demonstrations and lectures and leading project sessions

Barnes Jewish Hospital Emergency Medicine, St. Louis, MO

Administrative Intern   May 2022 – August 2022
- Created a new compensation plan for faculty salaries in Emergency Medicine based on quality metrics post COVID-19 through the strategic plan for two fiscal years
- Assisted and shadowed the Director of Emergency Medicine for presentations regarding staff Retention and compensation

MEDLaunch, St. Louis, MO

Team Lead   August 2020 – June 2022
- Designed an application that tackled staffing shortages and nurse burnout, particularly in oncology infusion centers (Received 1st place award: $2500 investment)
- Design a prototype for a medical device that accurately measures the cervix dilation during delivery

Space Systems Research Lab, St. Louis, MO

Ground Operation, and Communication   January 2019 – May 2021
- Led in the development, construction, and integration of a satellite sent into orbit from the International Space Station in November 2019 to measure certain radiation levels at different atmospheric levels between Earth and outer space

Health Resource Center, St. Louis, MO   December 2021 – May 2023

Financial Coordinator
- Work with executive leaders of the SLU Medical School to develop and monitor the financial budget
- Manage the tracking and ordering of medical supplies and equipment through Workday

BAPS Charities, St. Louis, MO   March 2017 - Present

Administrator and Youth Director
- Develop weekly presentations for academic services, career development, and personal well-being. Facilitate professional skill training, community service opportunities, and provide meals to the underserved community

Regional Coordinator   June 2012 - Present
- Assist as a St. Louis and a Kansas City lead that organizes many charitable events and serves in advancing education, health & well-being, environmental protection, preservation, and humanitarian relief

SKILLS

Programming/Scripting Languages: (Proficient)Python; (Familiar) C++, C, SQL, MATLAB, R

Frameworks and tools: Git, TensorFlow, VS, React, Node.js, Android Studio, Xcode, Tableau, Docker, CircleCI

PROJECTS

Saint Louis University, St. Louis, MO

Research Projects   August 2023 – Present

    Hardware-on-the-Loop simulation of Drones vs Human Interaction
- Design and test hardware and software for unmanned ariel vehicles for when deployed
- in high stress emergency response scenarios. How human impact affects system behaviors in small Unmanned Arial Systems (sUAS)
- Have worked with Unity, PX4, AirSim.

    Property Inference Attacks on Multimodal Data
- Conducted research in computer security, utilizing machine learning tools to perform property inference attacks against multimodal data, aiming to deduce insights about the model's training methodologies

    Correlating Procedures Within ER to KPIs
- Analyze SLU Hospital emergency room readmission rates to identify correlation between diagnosis, providers, and treatment plans through the utilization of R, SAS, and Python

VOLUNTEERING

COVID Contact Tracer   2020 - 2022
- Worked with the Department of Public Health in St. Louis to contact trace people for covid

Labre Ministry   2019
- Provided aid to the underserved and shelters during extreme weather temperatures
- Cooked and delivered food and distribute clothing to people without housing in the St. Louis area

BAPS Charities   2013 – Present
- Host walkathons to raise money to plant a billion trees around the world
- Work with young children to learn about the importance of service through the prayer of God

Habitat for Humanity   2019 - 2022
- Helped construct homes for unhoused families in the underserved community in St. Louis

Blood Drive / Health Fair   2018 - 2022
- Hosted Blood Drive for over 250+ blood donors at a community center in Bridgeton, MO.

Leadership and Awards
- **Saint Louis University Graduate Research Assistantship**   2022 - Present
- **Saint Louis University Dean's List**   2020 - 2023
- **Saint Louis Dean's Scholarship Recipient**   2018 - 2022
- **Saint Louis Enhanced Merit Scholarship Recipient**   2018 - 2022
- **Maryville Township Citizen of the Year Award** (One Selected from the entire city of Maryville, IL)   2018
- **Illinois State Scholar**   2018

Certifications
- Six Sigma White Belt Certified
- Six Sigma Green Belt Certified
- FEMA: IS-37.22: Managerial Safety and Health Certified