Saathveek Gowrishankar

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EDUCATION

University of Illinois Urbana-Champaign Expected Graduation: May 2026
B.S. in Computer Engineering
Minor in Data Science
Relevant Coursework: Parallel Programming, Algorithms and Models of Computation, Digital Systems Laboratory, Data Structures, Data Science

EXPERIENCE

Software Engineering Intern May 2024 - August 2024
Mullbry, Inc.
- Implemented OpenAI API function calling in Python to accelerate borrower approval workflows by 20%.
- Developed a versatile testing infrastructure capable of assessing the accuracy, efficiency, and reliability of GPT and other large language models within various contexts.
- Automated generation of unique login QR codes for distribution to clients using Javascript.
- Determined company needs with CEO and translated to actionable technical features with CTO, developing a deeper understanding of the relationship between business and engineering.

Human-Robot Interaction Researcher August 2022 - Present
Human Factors and Aging Laboratory
- Collaborated with academic and technical professionals to develop a comprehensive scoping review to better understand the evolving relationship between older adults and robotic technologies.
- Established and modified review procedures, applying effective research and problem-solving strategies while working independently in a deadline-oriented setting.
- Identified relevant questions and determined the best methods of collection while collaborating with the principal investigator.
- Collected, organized, and analyzed research data across various studies to create representative visuals to corroborate universal trends and highlight contrasting results.

PROJECTS

A Machine Learning Approach to Understanding Older Adults' Perspectives January 2024 - April 2024
- Utilized Python's ML libraries to analyze existing survey data and to develop a predictive model capable of accurately estimating older adults' level of trust in assistive technologies.

Exploring Older Adults' Willingness to Trust Telehealth Robots January 2023 - April 2023
- Researched and developed a summary of studies attempting to understand the correlation between older adults' familiarity with existing technologies and their expressed trust toward novel robotics.

LEADERSHIP

President January 2024 – Present
Engineers Without Borders UIUC
- Advise an executive board of 19 chapter leaders and oversee the operations of 4 independent project teams consisting of over 150 active members.
- Collaborate with students and industry professionals using *contextual engineering* to design a concrete vehicular bridge for a rural village in Malawi.
- Led a team of 30+ students to apply for grants and develop corporate sponsorship partnerships.
- Organized social and professional fundraising events to expand our organization's outreach efforts.
- Successfully coordinated the most profitable year in the organization's history, raising over $30,000.

SKILLS

Languages: C++, C, Python (Pandas, Seaborn, Matplotlib), Java, JavaScript, R, Assembly
Softwares: System Verilog, Git, VSCode, LaTeX, Autodesk Inventor, AutoCAD Civil