Saathveek Gowrishankar

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EDUCATION

University of Illinois Urbana-Champaign

B.S. in Computer Engineering, Certificate in Data Science

Nanyang Technological University

Cultural exchange semester in Singapore

Courses: Parallel Programming, Computer Systems Architecture, Data Structures, Algorithms

EXPERIENCE

Infrastructure Engineering Intern

Blue Cross and Blue Shield of Illinois

May 2025 - Present

Jan 2025 - May 2025

Expected Graduation: May 2026

- Integrated machine learning into capacity planning, reporting to the Executive Director of Infrastructure.
- Developed ARIMA models to forecast CPU, RAM, and storage demand, enabling proactive upgrades.
- Automated Dynatrace queries and Power BI reporting for 2,700+ applications, reducing server failure risk.
- Analyzed membership and resource usage trends to guide AIOps-driven decisions on scalability planning.
- Consolidated data from Dynatrace, SolarWinds, and storage logs into Databricks for use in capacity analysis.

Software Engineering Intern

May 2024 - Aug 2024

Mullbry, Inc. (Startup)

- Collaborated directly with the CEO to transform manual processes into automated, AI-driven workflows.
- Implemented OpenAI API function calling in Python to accelerate borrower approval workflows by 20%.
- Built a modular testing framework to evaluate LLM accuracy and performance across diverse tasks.
- Delivered weekly solution updates while designing backend systems for long-term scalability.
- Designed a Node.js-based system to generate unique client login QR codes, streamlining client onboarding.

Human-Robot Interaction Researcher

Aug 2022 - Present

Human Factors and Aging Lab at UIUC

- Co-authored a pending publication on the evolving relationship between older adults and assistive technologies.
- Optimized data collection, accelerating project timeline while staying aligned with key research questions.
- Managed deliverables and timelines, communicating regularly with project leaders on evolving study objectives.

LEADERSHIP

President and Advisor

Jan 2024 - Present

Engineers Without Borders at UIUC

- Led an executive board of over 20 chapter leaders, overseeing a chapter of over 170 active members.
- Pioneered a membership incentive system, improving membership by 81% and member retention by 26% YoY.
- Advised on the operations of 4 independent engineering service projects with a total budget exceeding \$150,000.
- $\bullet \ \ {\rm Mediated\ conflicts\ and\ fostered\ mentorship,\ strengthening\ chapter\ cohesion\ and\ sustaining\ long-term\ momentum.}$
- Collaborated with industry professionals to design a concrete vehicular bridge for a rural village in Malawi.

PROJECTS

Keyword Spotting with Tiny ML

Jan 2025 - May 2025

Nanyang Technological University

- Deployed real-time audio classification on an Arduino BLE Sense using TensorFlow Lite for Microcontrollers.
- Trained a quantized CNN in Keras for on-device keyword spotting in resource-constrained environments.
- Validated inference accuracy and latency with real-time benchmarking and iterative model compression.

A Machine Learning Approach to Understand Older Adults' Perspectives

Jan 2023 - Apr 2024

Human Factors and Aging Lab at UIUC

- Built Lasso and Ridge supervised regression models to estimate older adults' trust in novel assistive robots.
- Analyzed how prior tech familiarity impacts older adults' willingness to interact with emerging technologies.
- Presented findings for two consecutive years at the Illinois UGR Symposium to an audience of experts and peers.

SKILLS

Languages: Python, C++, C, DAX

ML/DS: TensorFlow, Keras, statsmodels, scikit-learn, Databricks, Pandas, NumPy, Seaborn

Tools: Azure DevOps, CUDA, Git, Docker, OpenAI APIs, Dynatrace, SolarWinds, Power BI, Excel