SUDHA GATTU

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EDUCATION

University of Illinois Urbana-Champaign   May 2025
Master of Computer Science   *Urbana, Illinois*

University of Illinois Urbana-Champaign   May 2024
Bachelor of Science, Computer Science   *Urbana, Illinois*

SKILLS

Computer Languages   C/C++, C#, Java, Python, Linux Programming, JavaScript, Shell Scripting, HTML/CSS
Software and Tools   Visual Studios, Eclipse, GIT, Microsoft Suite, PyTorch
Relevant Coursework   Data Structures, Algorithms & Models of Computation, Computer Architecture, System Programming, Discrete Structures, Applied ML, Linear Algebra, Probability/ Statistics

EXPERIENCE

Carrier   May 2023 – August 2023
Digital Process Automation Intern   *Atlanta, Georgia*

- Worked closely with a cross-functional team to design and develop a highly effective chat bot the website, leverage Generative AI technology, and ensuring seamless integration with the website's interface.
- Utilized and implemented a Generative AI solution and leveraged the capabilities of Microsoft Semantic Kernel to optimize the performance and functionality of the existing chatbot for the company website.
- Resulted in the chatbot's improved conversational capabilities, ability to better understand user queries, provide accurate and relevant response, and enhanced user experience.

Code Ninjas   May 2021 – August 2021
Intern   *Austin, Texas*

- Facilitated engaging and educational experiences for elementary school students, teaching and guiding them in programming enabling them to create their own applications.
- Implemented hands-on instruction methods, leveraging interactive tools to foster a genuine interest in robotics, spark curiosity for STEM fields and enhance their problem-solving skills.

Dare to be Different   August 2019 – May 2022
Co-Founder   *Austin, Texas*

- Enhanced students' exposure and insights integrating entrepreneurship and STEM though engaging guest speakers, interactive workshops, comprehensive lessons, and a shark-tank style competition.
- Empowered students to harness their ingenuity, fostering an environment of fun, confidence-building, and leadership.
- Partnered with three Round Rock ISD elementary schools, facilitating a program that attracted over 100 students.

ProjectCSGirls   April 2021 – August 2021
Chapter Lead   *Austin, Texas*

- Inspired and empowered middle school students to explore the exciting fields of computing and technology by hosting guest speakers, organizing coding events, and facilitating interactive workshops.
- Delivered comprehensive lessons in a diverse range of subjects such as Artificial Intelligence, Block-Based Programming, Windows Application Development, Java, Python and C++ for students to gain hands-on experience.
- Actively contributed to fostering a more inclusive and diverse STEM community and supporting the ongoing efforts to bridge the gender gap in STEM.

PROJECTS

- **Lexical Wizards:** Programmed a sophisticated system designed to retrieve information from uploaded documents and provide users with real-time and personalized answers based on user prompts and custom queries. Utilized powerful tech stack including LangChain, PyPDF2, Streamlit, HuggingFaceEmbeddings, and FAISS (local in-memory Vector store)
- **Contactless Student Check In/Check Out:** Programmed a C# Windows Form Application in Visual Studio of a simulation of a server client application that lets parents check in their kids remotely from their vehicles while teachers can verify that the kids made it to their respective classrooms for Parinama Academy (Teaching Institute in Austin).