

SARAN DATLA

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EDUCATION

University of Illinois at Urbana-Champaign

B.S. in Computer Science + Physics

Urbana, Illinois

Expected Graduation, May 2028

- **Concentrations:** Low-level design, Android Development, Qiskit
- **GPA:** 3.96/4.00, *Dean's List*

Related Coursework: Data Structures & Algorithms, Objects & Design, Computer Organization & Programming, Object-Oriented Programming, Full Stack Development

TECHNICAL SKILLS

Programming Languages: C, C++, Java, Python, JavaScript

Frameworks/Tools: Git, React, Android Studio,

Spoken Languages: English & Telugu

WORK EXPERIENCE

Java Tutor

Jan 2025 - Present

Assistant Tutor for 124

- Taught students the basics of Object-Oriented Programming and provided real-time support to their questions
- Provided hands-on support for students working on android development projects, guiding them through debugging and best practices
- Led office hours and exam reviews to support student understanding and performance

EV Concept Embedded

Aug - Dec 2024

Member

- Converted a brushless DC motor's rotation from trapezoidal to sinusoidal waveform, significantly improving motor efficiency and reducing heat generation
- Developing a more effective planning algorithm to improve the car's range

EV Concept AI

Aug - Feb 2024

Head

- Designed and implemented a decision tree model to enhance real-time obstacle navigation and route optimization
- Optimized LIDAR sensor input handling to improve reaction time in dynamic environments
- Spearheaded weekly strategy meetings and code reviews to align the team on development milestones

PROJECT HIGHLIGHT

Tutoring website Sign-Up form (HTML/CSS, JavaScript, Java)

April 2024 – Present

- Designed and implemented a user-friendly sign-up form for AP tutoring services
- Developing a back end to store users' data

TalkChain – AI chatbot to learn a new language

January 2025 - Present

- Integrated the Hugging Face API to generate dynamic and context-aware responses
- Designed an adaptive learning program tailored to user interactions
- Built an intuitive chat-based interface to create a natural and immersive language-learning experience