Sai Kothapalli

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Education

University of North Carolina at Chapel Hill   **Expected May 2027**

Bachelors of Science in Computer Science and Economics | Minor in History

- **GPA:** 3.73
- **Coursework:** Data Science and Econometrics, Data Structures and Algorithms, Artificial Intelligence, Modern Web Programming, Files and Databases

Technical Skills

Languages: Java, Python, JavaScript, TypeScript, SQL, C, C++
Developer Tools: AWS, Git, Docker, Postman, Linux/Unix, Node.js
Frameworks and Libraries: Spring Boot, Flask, PostgreSQL, ReactJS, Next.js, Scikit-learn, Pandas, NumPy

Experience

Building Team Engineer, Chapel Thrill Escapes – Chapel Hill, NC   September 2025 - Present

- Refactored and modularized legacy **C++** puzzle-control systems while authoring clear documentation of system architecture and logic to improve readability, maintainability, and faster puzzle integration.
- Designed and fully implemented a new **React**-based password-validation puzzle, integrating real-time input handling and smooth communication with existing systems to support the escape room's narrative progression.

Software Engineer, EdwinAndrews Properties – Chapel Hill, NC   October 2025 - Present

- Developing a full-stack property management web app using **Next.js** and **Supabase**, implementing real-time WebSocket updates for maintenance requests and role-based user authentication for tenant–landlord communication.

Position Assistant, BeAM Makerspace – Chapel Hill, NC   February 2024 - Present

- Encourage a more supportive environment by training patrons in various engineering tools and machines, troubleshooting common problems within the Makerspace, and guiding patrons as they create their projects.
- Facilitate the bi-annual BeAM Makerfest event, collaborating with a group of 15 students and 5 senior staff to showcase Carolina student and staff's projects to over 600 attendees

Projects

Spanish Resume Builder, Steelhacks 2025 | *Flask, ReactJS* | [Project Link](#)

- Developed a scalable backend data pipeline to handle frequent POST requests from a voice AI API, applying object-oriented composition to organize API response data into structured records for downstream integration.
- Implemented real-time frontend updates by building GET endpoints in Flask and using polling methods in React to fetch data, enabling live resume construction and synchronization between backend objects and UI state.

Sporting Event Tracker Web App | *Spring Boot, ReactJS, PostgreSQL*

- Built a full-stack Spring Boot + React web app to log and filter sports games attended by users, integrating PostgreSQL with Hibernate/JPA and 10,000+ real game records for persistent storage, efficient querying, and RESTful API communication.
- Designed a scalable, polymorphic backend using a joined-table inheritance strategy and object-oriented design patterns to support multiple sports with shared and sport-specific data models, and applied DTO patterns to streamline RESTful API responses and decouple frontend-backend logic.

Leadership and Community Involvement

President, Sangam – Chapel Hill, NC   October 2023 - Present

- Coordinated the organization and execution of large-scale events (Garba, Mixer, Formal) that engaged over 800 participants by supervising the executive board and managing monetary resources through proactive leadership and cross-functional collaboration.