

Gautham Raju

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EDUCATION

- **University of Texas at Austin**

Bachelor of Science in Computer Science; GPA: 3.8

Austin, TX

Aug. 2019 – May. 2023

EXPERIENCE

- **Other World Computing**

Software Engineer

Woodstock, IL

Apr. 2021 - Present

- **Dockerized Health Checks:** Built database and application specific health checks for every project in the back-end code-base run by docker to automatically alert the team when errors occur or an app shuts down unexpectedly.
- **SQL efficiency:** Refined existing SQL schemas to improve database and API calls from taking 1000s of milliseconds to under 10s of milliseconds.
- **React.js Frontend Enhancements:** Used React.js and .NET C# to create tabular displays of stock quantities and order backlogs and included filtered search capabilities in the company's back-end website to improve user experience for the factory department.

PROJECTS

- **University Club Election App**

SummerHacks Hackathon

Austin, TX

May. 2021 - Aug. 2021

- **Tech Lead:** Led Front-end development and supervised back-end development on a four-member team to design and program a multi-platform app using React-Native, HTML, CSS, Javascript front-end, Django back-end, and user authentication with a MongoDB database connection
- **Execution:** Allowed greater participation in university-level clubs by providing a central platform for communication and information for every club a student may be a part of, along with the ability to elect club leadership from within the app. Made use of the Google calendar API to automatically sync notifications with the user's Google calendar account.
- **Results:** Received unanimous 10/10 scores from all the judges.

- **NLP Cyberbullying Detector**

Software Engineer Project Lead

Personal

Oct. 2021 - Nov. 2021

- **Backend/API:** Led back-end and worked on front-end development to program a website plugin that automatically detects and flags cases of cyberbullying using an HTML and CSS front-end and Django-python back-end.
- **NLP algorithm development:** Combined Google's Natural Language Processing API, sentiment analysis, and web-scraping online lists of known curse words to build a model that can process a given sentence and output a cyberbullying score to return to the user.

- **AI 3D Endless Runner**

Software Engineer

Personal

Oct. 2021 - Jan. 2022

- **Swift/XCode iOS development:** Programmed an infinite runner game called Crazy Taxi using Swift and XCode. Made use of the NEAT algorithm(NeuroEvolution of Augmenting Topologies) to train a player model to learn how to play the game by itself over time.
- **User Authentication/Database connectivity:** Used MongoDB for database connectivity to store high scores across sessions and provide user authentication

PROGRAMMING SKILLS

Languages: Java, Python, Javascript, C++, SQL, Swift, Go

Technologies: Git, AWS, MySQL, React, XCode, Docker

Coursework: Data Structures, Object-Oriented Programming, Algorithms, Discrete Math, Operating Systems, Computer Architecture, Linear Algebra, Calculus, Networks, Virtualization, Data Mining