

KAUSHAL CHAMARTHY

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EDUCATION

University of Texas at Austin Major: Computer Engineering (BS), Mathematics (BS) May 2025
Overall GPA: 3.86 Minor: Business Administration

Coursework: Software Implementation and Design, Data Structures, Algorithms, Operating Systems, Financial Mathematics

SKILLS

Languages: Java, Python, C++, C, Assembly, JavaScript, HTML, CSS, R, SQL

Technologies/Tools: NumPy, Pandas, Jupyter Notebook, Salesforce, Splunk, Restful API, Git, Agile

INTERNSHIPS

Dun & Bradstreet – Software Engineering Intern June 2023 – August 2023

- Implemented AspectJ logger for 60+ microservices, tracking endpoint execution times, driving performance improvements
- Engineered Splunk dashboards to monitor unique staging/production exceptions, strategically averting production issues
- Enable targeted performance optimization by identifying bottlenecks and areas for improvement
- Achieve significant response time enhancements of up to 20% through effective performance analysis and optimization

Community Health Choice – QI Special Projects Coordinator Intern June 2022 – December 2022

- Utilized Salesforce Marketing Cloud to create impactful member journeys, driving a 30% increase in customer interaction
- Designed effective long-term support models, fueling ongoing development and significant marketing growth
- Coordinated stakeholders, providing essential day-to-day support while mitigating risks and resolving critical issues

EXPERIENCE (STUDENT ORGS)

Texas Rocket Engineering Lab February 2022 – Present

Software Engineer - GNC Team

- Reducing simulation runtimes by 15% through MATLAB to C++ code conversion in Trick, accelerating analysis for the GNC team
- Empowering the GNC team with accelerated iteration and analysis of simulations, enabling faster decision-making processes
- Improving project timelines by slashing simulation turnaround time, ensuring prompt delivery of high-quality results

Software Engineer - Avionics Software Team

- Collaborated in a 100+ member team to develop the software stack for a liquid bipropellant spaceship rocket
- Utilized C, LabView, and VeriStand to simulate and control rocket flight systems, ensuring mission-critical functionality
- Gained expertise in fluid dynamics and validated models through rigorous Hardware-in-the-Loop (HIL) testing

Texas Convergent August 2021 – December 2022

Software Engineer - CareersGO - Best Overall Award

- NFC-based digital service using PocketBase, Next.js, and React Native, enhancing career fair experiences
- Implemented seamless networking and information exchange, resulting in a 40% increase in candidate-recruiter connections
- Collaborated cross-functionally, delivering CareersGO with improved efficiency and 30% reduced time-to-market

Software Engineer - Senti

- Developed a Python based stock market app leveraging Tweepy, Webflow, and Google's Natural Language API
- Implemented reliable indicators for buying, selling, or holding stocks, resulting in a 20% increase in user portfolio performance
- Optimized algorithmic models and integrated real-time data feeds, ensuring accurate and up-to-date stock analysis

TECHNICAL PROJECTS

eHills (Java, JavaFX, MongoDB, Twilio)

- Developed an efficient online auction platform using JavaFX, supporting simultaneous bidding on items in a thread-safe manner
- Designed an intuitive and user-friendly GUI, allowing customers to easily log in, select items, and track bid history
- Implemented a real-time messaging feature to notify clients instantly when a bid is placed, enhancing bid tracking efficiency
- Independently executed the entire development process, ensuring timely delivery of a high-quality online auction platform

Quarantine Support Application (Java, JavaFX, TomTomAPI, MapQuest)

- Developed a JavaFX application for accurate COVID symptom assessment, empowering users with a reliable diagnostic tool
- Maintained an up-to-date list of nearby hospitals within a 50-mile radius for prompt medical assistance accessibility
- Implemented robust security measures, including symmetric encryption and local OTP verification, ensuring data privacy
- Fostered effective teamwork, enabling efficient development processes and timely project delivery

Twitter Bot (Python, Tweepy, MoviePy)

- Created a Twitter Bot using Python, Tweepy, and MoviePy to curate top tweets related to a specific keyword into short videos
- Implemented a sorting algorithm to rank over 100 tweets based on the number of likes, ensuring the most engaging content
- Generated relevant social media content for platforms like TikTok and Instagram Reels, increasing user engagement
- Collaborated with a team to refine the bot's functionality and optimize its performance, resulting in enhanced user experience