Rohit Shetty

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EDUCATION

The University of Texas at Austin, Austin, TX May 2025
Bachelor of Science, Computer Science; Minor, Business Administration
• GPA: 3.67 (3x University Honors)
• Relevant Coursework: Data Structures, Computer Organization and Architecture, Operating Systems, Applied Statistics, MIS

SKILLS

• **Programming Languages:** Java, Python, C/C++, JavaScript, TypeScript, HTML, CSS, Assembly, SQL, R
• **Frameworks/Tools:** NodeJS, Angular, React, Swift, Docker, Kubernetes, ROS, Linux, Git/GitHub/GitLab, Postman, GCP, PyTorch

TECHNICAL WORK EXPERIENCE

H-E-B Digital - *Software Engineering Intern;* San Antonio, TX May 2022 - July 2022
• Improved store management efficiency 30% by engineering a full-stack administrative panel to manage all in-store business-actions
• Organized 20,000 in-store data entries by developing a Rest API & backend, using MySQL, Node.js, and Java, to manipulate queries
• Successfully communicated store data to 10,000+ corporate employees via a user-friendly front-end built with Angular & TypeScript
• Deployed the application to Google Cloud Platform, utilizing Docker, and is to be launched to productions in over 400 stores

Autonomous Mobile Robots, Research Initiative - *Machine Learning Researcher;* Austin, TX January 2022 - May 2022
• Implemented a vision pipeline for semantic segmentation of an individual's clothing, using Mask-RCNN to create distinct silhouettes
• Deployed a Robot Operating System (ROS) package (utilizing YOLO) to detect, isolate, and publish images of individuals
• Optimized training hyperparameters to correctly segment clothing articles and labels; achieved a precision of 85%
• Wrote an IEEE conference style paper summarizing findings and received special recognition from the professor

West Coast Analytics - *Data Science Intern;* Dallas, TX May 2020 - August 2020
• Analyzed 5,000 data sets from the early months of the Covid-19 outbreak, to map the virus's global trajectory in "R"
• Predicted the financial and social impact of the spread of Covid-19 in 200 geographical locations by creating statistical data models
• Distributed results to 50+ clinics to help them forecast the potential number of infected individuals and plan for required resources

PROJECTS

PintOS – *Academic Project, Operating Systems* March 2023 - May 2023
• Implemented an Operating System in C, with system calls, interrupts, multi thread schedulers (e.g.MLFQS) and user-prog handling
• Constructed a fully functional file system based on FFS and programmed a virtual memory management system

SolVit – *Personal Project* January 2021 - May 2021
• Designed a 3D model armband and sensor module that measures stress levels, via Cortisol detection, alongside Caltech researchers
• Prototyped a mobile app, utilizing machine learning, to analyze Cortisol data and create a personalized stress management system
• Qualcomm Innovation challenge International Semifinalists; placed in the top 100/1,000+ world-wide projects

GreenCam – *Personal Project* August 2020 - March 2021
• Built an iOS app, utilizing Swift, to allows users to scan various waste items and determine in under 10 sec if they are recyclable
• Achieved an accuracy of 70% in identifying recyclable materials, by optimizing a CV and machine learning model, using CreatML

LEADERSHIP & ACTIVITIES

Texas Blazers – *Official Host of The University of Texas;* Austin, TX Fall 2022 – Present
• Serve as the university's official rep. at donor, charity, and alumni events, and mentor students at Eastside Memorial High School
• Raised and donated over $2,000 to Casa Marinella to provide shelter and support services for displaced immigrants
• Volunteered over 80 hours teaching underprivileged students in the East Austin community, serving as a tutor and counselor

Texas Convergent (Startup Accelerator) – Technical Program manager*;* Austin, TX Fall 2021 - Spring 2022
• Upgraded UT's dining experience by presenting dining hall menus, meal-prep plans and macros in a user-friendly web application
• Lead UX, Eng, and UXR in project, and received "Best-Design" out of over 20 startups selected to be in the accelerator
• Designed, and engineered an API and back-end to extract dining hall data from UT's dining database using Java, Node.JS and SQL