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Projects

Septre Insights | Diagnose 7 diseases with a smartphone

HackLITD VIII

HACKUTD - LARGEST UNIVERSITY HACKATHON IN TEXAS

Nov 2021

- Built PyTorch Machine Learning dataset by
- · Used ML model to diagnose 7 different diseases, including diabetes and glaucoma, using digital fundoscopy with over 85% accuracy.
- Developed Vue. is Frontend and Swift Mobile App connected to Flask API with PostgreSQL Backend.

Degree Planner | Drag and drop degree planner app for UTD courses

The University of Texas at Dallas

Fall 2022

UTD Nebula - Student Organization creating Open Source Software for Students

- Implemented Course Validation functionality, allowing users to verify their class schedule.
- · Contributed Degree Plan Validation functionality, enabling automatic auditing of a degree plan without an advisor.
- · Mentored a group of 4 students on frontend technologies HTML/CSS/JS, TypeScript, and Next.js.

Comparison of Swarm Robotics Algorithms | Cooperation of a swarm of simple robots

The University of Texas at Dallas

ACM RESEARCH - 12-WEEK RESEARCH COMPETITION

Fall 2021

- Compared 3 algorithms for controlling robotics with decentralized control and cooperation.
- Designed simulation to collect behavioral data of robots performing resource collection tasks using C++ and Unreal Engine.
- · Analyzed simulation data for statistical differences using Pandas and visualized data for presentation using Seaborn.
- Presented at the Biannual ACM Research Symposium.

Professional Experience _____

ObjectWin, Inc. Houston, Texas

Mobile Applications Developer - Summer Internship

Jun 2020 - Aug 2020

- Developed mobile application for time-sheet entry using Ionic.
- · Collaborated with a global team to connect frontend components written in Angular JS with SQL Server database.
- Ameliorated time-sheet entry for consultants at tech consulting company.

Skills

Rust, Python, SQL, JavaScript, Go, Java, Bash, C, C++, Haskell, ŁTFX, MIPS & ARM Assembly **Programming Languages**

Tools and Platforms Linux, Docker, Git, Ansible, Kubernates, Cloudflare, AWS, PostgreSQL

Languages English (native), Hindi (elementary), Marathi (conversational), American Sign Language (elementary)

Education

The University of Texas at Dallas

Richardson, Texas

B.S. IN COMPUTER SCIENCE

2021-2025

2017-2021

• Academic Excellence Scholarship Recipient.

Grapevine High School HIGH SCHOOL DIPLOMA

Grapevine, Texas

· Vice-President of Advanced Academics Student Club.

- · Flute Section Leader in Marching Band.
- TFA State World-Schools Debate competition finalist.

Awards

COLLEGE BOARD

National AP Scholar, Grapevine High School

Grapevine, Texas

2019-2021 AP Scholar with Distinction, Grapevine High School

Grapevine, Texas

BAND

2019 Director's Choice, Grapevine High School Band Grapevine, Texas

AMRIT RATHIE · RÉSUMÉ OCTOBER 12, 2022