

Daksh Dua

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EXPERIENCE

SOFTWARE DEVELOPMENT ENGINEER I INTERN | AMAZON Summer 2021

- Interned on the Treasure Truck team, focusing on test automation
- Gained experience with AWS technologies and tools including AWS Lambda, DynamoDB, API Gateway, Identity and Access Management, CloudFormation, Virtual Private Cloud, CloudWatch and Pipelines
- Developed a project design document and technical specifications
- Created a Java Coral framework microservice to automate test customer creation and maintenance
- Made a Java CLI tool using Picocli for convenient use of the microservice
- Presented a final intern project presentation at the end of the internship

PEER MENTOR (CS 309) | UNIVERSITY OF TEXAS AT AUSTIN Jan 2021 - Present | Austin, TX

- Perform TA duties for the Autonomous Robotics FRI stream: assist students during office hours, grade student homeworks, etc.
- Participate in research with the robotics department, continuing work on autonomous delivery system project and person-avoidance project

CNS INVENTORS FELLOW | UNIVERSITY OF TEXAS AT AUSTIN Summer 2020 | Austin, TX

- Worked with Texas Robotics and Good Systems to develop for an autonomous fleet of food delivery robots on the campus of UT Austin
- Used with gRPC in C++, Gazebo and Robot Operating System

ROBOCAMP COUNSELOR | UNIVERSITY OF TEXAS AT AUSTIN Summer 2020 | Austin, TX

- Taught high school students C++ and Robot Operating System (ROS)

LEADERSHIP AND INVOLVEMENT

SENATE OF COLLEGE COUNCILS

Administrative Director | Mar 2021 - Present

Technology Coordinator | Mar 2020 - Mar 2021

Academic Policy At-Large | Nov 2019 - June 2020

- Developed full-stack voting platform solution to be used during organization meetings using Node.js and PostgreSQL
- Spearheaded website modernization and ADA compliance
- Created a Initiative Database on the website that non-technical users could maintain using Google Sheets as a CMS
- Administered mailing lists, contacts, Slack, analytics, and other logistics for an organization of over 300 people
- Introduced automation using Google Sheets to maximize efficiency
- Designed and administered multiple surveys that reached thousands of students and published reports on the results

CODE ORANGE

Volunteer Tutor | Nov 2019 - Mar 2020

- Volunteered to teach students from underserved schools in Austin the basics of computer science with Scratch

EDUCATION

UNIVERSITY OF TEXAS AT AUSTIN

BS IN COMPUTER SCIENCE

September 2019 - May 2022 | Austin, TX

College of Natural Sciences

Core Texts and Ideas Certificate

Cum. GPA: 4.0 / 4.0

Major GPA: 4.0 / 4.0

COURSEWORK

COMPLETED

Data Structures

Principles of Computer Systems (OS)

Computer Organization and Architecture

Object-Oriented Programming

Autonomous Intelligent Robotics

(Peer Mentor & Research Asst.)

Autonomous Intelligent Robotics II

(Peer Mentor & Research Asst.)

Symbolic Programming

Programming for Correctness & Performance

Discrete Mathematics

Multivariable Calculus

Statistics and Probability

Matrix Calculus

CURRENT

Neural Networks

Algorithms and Complexity

Compilers

SKILLS

LANGUAGES & TECHNOLOGIES

Proficient:

Java • HTML • CSS • JavaScript

Node.js • ROS • gRPC • Git

Familiar:

C • C++ • Python • AWS • PostgreSQL

Bootstrap • Bash • Heroku • GDB • \LaTeX

Exposure To:

x86 Assembly • Docker • Clojure • MATLAB

GENERAL

Linux • Windows • Microsoft Office • GSuite

Qualtrics • English • Hindi • Spanish

AWARDS AND HONORS

2021 CNS Second Year Excellence Award

2020 CNS Inventors Fellow

2019 National Merit Scholarship

2019 National Honor Society Inductee