

EDUCATION

The University of Texas at Dallas | BS Computer Science | GPA: 3.63 May 2023

Coursework: Data Structures & Algorithms, Object Oriented Programming, Database Systems, Software Engineering, C/C++ Programming in UNIX, Operating Systems, Computer Architecture, Compiler Design

SKILLS

Java, Python, C, C++, Bash, JavaScript, HTML, CSS, React, Amazon Web Services, Assembly (MIPS), SQL, NoSQL, Git

WORK EXPERIENCE

Amazon Web Services – *Solutions Architect Intern; New York, NY* May 2022 – Aug 2022

- Worked on internal automation to make retrieval of funding data faster for the AWS GSI organization
- Developed a serverless Big Data Fabric using **AWS** services (**S3, Lambda, Glue, Athena, QuickSight**)
- Built a **QuickSight** dashboard for internal teams to analyze their funding data of 100M+ budgets for partners
- Saved 2+ hours per week for each team in the organization from previous data retrieval system in place

UTD Computer Science Mentor Center – *Mentor; Richardson, TX* Aug 2021 – May 2022

- Mentored 15+ students weekly on courses involving **Java, C++**, Discrete Math, and Computer Architecture
- Conducted 1 on 1 sessions to help students debug code, ensuring quality code and 100% project completion
- Hosted review sessions and exam reworks to help students prepare for exams

UTD Software Evolution Research – *Researcher; Remote* Aug 2020 – Dec 2020

- Worked in a team of 4 to identify patterns in large programs to improve requirements-to-code traceability
- Analyzed 5+ **Java** Apache projects to trace data constraints in documentation back to source code
- Annotated data constraints in software artifacts (User manual, requirements, code documentation)
- Reduced tasks workload by 50% by distributing workflows and improved productivity 2X

TECHNICAL PROJECTS

Flexcel-Cloud – Independent Project Jan 2021 – Sep 2021

- Developed storage feature using **Python** to prevent user data loss
- Built 3 REST APIs endpoints using **Flask** and deployed backend to cloud using **Heroku**
- Used **MongoDB** to store user flows and user metadata such as emails and results in a JSON format

Autonomous Car Navigation – Independent Project Jun 2021 – Aug 2021

- Developed a computer vision application using **Python** and **OpenCV** that performs object detection
- Utilized Canny and Hough Line Transformation functions to detect lanes from car cameras
- Implemented Haar feature-based cascade classifier to train model from input video with 93% accuracy

IEEE CAS Dallas – Web Developer Jun 2020 – Apr 2021

- Redesigned the official website from WordPress to a dynamic, user-friendly website in React
- Continually improved website design and content based on tailored user and management feedback

LEADERSHIP ACTIVITIES

IEEE UTD – *Tech Committee Member; Richardson, TX* Aug 2019 – Mar 2020

- Guided 15+ students through Arduino workshop activities, increasing student participation by 20%
- Increased recruitment of new members by 32% by increasing social media presence