Anish Kumar

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EDUCATION

Texas A&M University, College Station, Texas May 2023
Bachelor of Science in Computer Engineering Honors
GPR: 4.0
Relevant coursework: Honors Intro to Python • Intro to Program Design and Concepts • Discrete Structures for Computing • Data Structures and Algorithms• Intro to Digital Systems Design •Intro to Computer Systems • Computer Architecture •Circuit Theory• In Progress: Electronics • Signals and Systems • Programming Studio

SKILLS

- Python (Scrapy, Tensorflow, SciKit-Learn), Javascript, C++, Java, Matlab, PHP, HTML,CSS, SQL, Verilog, ARM Assembly, gdb
- Cloud/Database: MySQL, Firebase, AWS Amplify
- Frameworks: React Native/ React.js(CS50 EdX course, LinkedInLearning), Joomla!, Flask
- Adobe Flash (animation) and Adobe Premiere (film editing) CS6

EXPERIENCE

Sandia National Labs, Albuquerque, NM June-August 2020, May 2021-Present
Undergraduate Technical Intern - Dept. of High Performance Computing (HPC) - OneStop

- Customized and created dynamic content using PHP, MySQL queries, HTML/CSS, and JavaScript/AJAX in large existing codebase of Joomla and Jira Service Desk
    - Wrote server- side code that was incorporated into over 20 existing production templates to make administrative maintenance of reusable content on website more efficient.
    - Made a dynamic resource lookup table that makes it easy to add, edit, delete, search, and sort different supercomputer specifications
- Quickly learned areas of the existing infrastructure pertinent to tasks by asking specific and relevant questions to more experienced employees and doing a great deal of self-research.

Texas A&M University (TAMU), College Station, TX January 2021
Competitor - TAMUHack

- Hackathon project related to adhering to COVID building restrictions made in under 24 hours that used Tensorflow openCV for object detection and an algorithm which could keep count of people entering and exiting an entryway
- Used HTML/CSS/Javascript for frontend, Flask and Node.js for backend, Firebase for data storage, Git for version control.
- Demo: https://devpost.com/software/covid-counter

Texas A&M University (TAMU), College Station, TX August -November 2019
Research Member - AggieInvent Application Development Team

- Refactored code, changed styles, and tested an app built in React Native that aims to crowdsource natural disaster data from vulnerable areas.
- Made small projects in React Native (like Pomodoro timer, API fetch app) through an online course for more proficiency.

University of New Mexico, Albuquerque, NM June - August 2018
Student Intern - Performance and Resource OpTimizatiOn in Networks (PROTON) Lab

- Simulated crowd evacuation management with Internet of Things equipped facilities using Stochastic Learning Automata and the Minority Game in Matlab.
- Rapidly learned about doctoral students' research and used a unique object-oriented approach to the problem.

Albuquerque Academy, Albuquerque, NM June - July 2018
Teacher's Assistant/Math Tutor - Think Academy Summer

- Improved on my abilities to effectively convey my thoughts, gauge the effectiveness of my methods, and mediate conflicts by tutoring children grades 7 - 10 in math and keeping them on task.
- Assisted in miscellaneous tasks in a classroom and kept a good dynamic with my fellow TA and the head instructor.

ACTIVITIES

Chi Psi Beta Service Fraternity, TAMU
Member, August 2020 - Present

- Designed the banner to be used during Project 365 (which raises thousands of dollars for mental health awareness) and made large wooden fraternity letters with fellow incoming class.

BUILD, TAMU
Student Supervisor, August-November 2019

- Guided 5-10 volunteers at a time on-site with tasks that worked toward transforming shipping containers into medical clinics.
- Learned basic construction processes and power tool usage while volunteering for the organization 5 hours a week.