PRANAV CHANDUPATLA

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EDUCATION

The University of Texas at Austin B.S., Computer Science May 2023
B.B.A., Finance May 2023

GPA: 4.0

PERSONAL PROJECTS

Grade Distribution Comparative Graphing Tool (*utgradedist.com*) Summer 2021

- Saved students an average of three hours per semester by creating a tool to visualize and rank course grade distributions
- Implemented a **MySQL** and **NodeJS** backend to build a relational database that efficiently returned queried distribution data
- Designed a web-based, front-end interface in **ReactJS** to display results in a graphical format with interactive data options

Bamboo ISA, Assembler, and Simulator Spring 2021

- Collaborated with a partner to create the Bamboo ISA, a custom assembly language based on CISC architecture
- Produced an assembler built in **Java** to parse Bamboo assembly code into simulator-executable machine code
- Constructed a simulated state machine and interactive terminal in **C** to execute assembled instructions on a **Linux** machine

EXPERIENCE

The University of Texas at Austin – *Data Structures Teaching Assistant* | Austin, TX August 2020 – Present

- Increase student comprehension by leading office hours to help students with coding assignments and course material
- Provide supplementary guidance by presenting weekly lessons on data structures concepts to a group of 20 students
- Aid student exam preparation by crafting and distributing extra coding practice problems during testing weeks

Fast Enterprises, LLC – *Software Development Intern*| Montgomery, AL June 2021 – August 2021

- Worked with Driver Control Team in an Agile environment to implement updated drivers' service systems for Alabama
- Boosted user efficiency by creating an automated out-of-state claims sub-system that handles all steps of the license suspension process, from the initial suspension to the creation of reinstatement requirements and the reinstatement itself
- Configured dynamic data cubes to analyze and visualize data by writing logic to filter and format raw, relational datasets
- Facilitated business cohesion by communicating client needs to developers and presenting thorough tech demos to clients

Applied Research Laboratories – *Research Fellow* | Austin, TX June 2020 – August 2020

- Investigated single-photon, multi-qubit systems using VQOL, a virtual quantum optics simulator
- Created **Python** and **Mathematica** automation programs to construct, manipulate, and analyze research datasets
- Co-authored a research paper written on photon particle-wave duality and presented findings to senior researchers

CAMPUS INVOLVEMENT AND LEADERSHIP

University Brazilian Jiu Jitsu Club – *President (Spring 2021 – Present), Secretary (Fall 2020 – Spring 2021)* Fall 2019 – Present

- Reduce budget inefficiencies by increasing financial data collection and implementing a data-driven allocation system
- Communicate with other universities to organize and manage semesterly inter-collegiate Jiu Jitsu tournaments
- Eliminate overdue administrative forms by configuring and updating a cloud-based organization calendar

Texas Convergent – *Front-End Developer on Small Business Tech Team* Spring 2021

- Designed and built front-end of prototype micro-financing platform to assist with small business funding deficits
- Developed mobile application using **React Native** and facilitated back-end interactions with the **React Firebase API**

TECHNICAL SKILLS

- **Coding Languages:** Fluent in Java | Proficient in SQL, C, x86, Visual Basic | Experience with ReactJS, NodeJS, HTML, Python
- **Tools:** Linux OS, Github, Tableau, Qiskit, Excel

ADDITIONAL INFORMATION

Relevant Coursework: Operating Systems, Data Structures, Computer Architecture, Quantum Computing, Algorithms
Work Eligibility: U.S. Citizen – Eligible to work in the U.S. with no restrictions