

PRANAV CHANDUPATLA

pranav.chandupatla@gmail.com • github.com/pchandupatla • cs.utexas.edu/~pchandup/
Austin, TX 78705 • (940) 535-4377

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 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

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

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

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

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
- Eliminate overdue administrative forms by configuring and updating a cloud-based organization calendar
- Communicate with other universities to organize and manage semesterly inter-collegiate Jiu Jitsu tournaments

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