

PRANAV CHANDUPATLA

pranav.chandupatla@gmail.com | github.com/pchandupatla | cs.utexas.edu/~pchandup/

2200 Nueces Street, Room 1206 • 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

Relevant Coursework: Operating Systems, Data Structures, Computer Architecture, Quantum Computing, Linear Algebra

TECHNICAL SKILLS

- **Languages:** Fluent in Java | Proficient in C, x86 | Experience with Python, HTML5, CSS3, JavaScript
- **Tools:** Linux OS, Github, GDB, Qiskit

PROJECTS

Personal Website Summer 2020

- Built a website to showcase personal projects and act as an online resume
- Learned how to use Adobe Photoshop to design and wireframe websites
- Coded the site from scratch using HTML5, CSS3, and JavaScript

BB84 Quantum Key Distribution Protocol Spring 2019

- Worked with a partner to construct a Java application to simulate a BB84 QKD encryption protocol
- Brainstormed new additions to the basic encryption protocol that boosted the base secure key bit rate by a factor of 1.2
- Established a protocol that remained uncracked by quantum computing classmates

Word Unscramble Fall 2017

- Created an interactive game that would have the player attempt to guess all possible anagrams of a word
- Implemented a map-based algorithm in Java to find three- to six-letter anagrams from a six-letter string
- Used by high school English as a Second Language teachers to boost students' word recognition and spelling skills

EXPERIENCE

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

- Presented weekly PowerPoint lessons on specific data structures to a group of 20 students
- Graded student assignments and exams
- Led office hours to help students debug their code and understand course material

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

- Collaborated with a team of three fellows on quantum optics research projects
- Investigated single-photon, multi-qubit systems using VQOL, a virtual quantum optics simulator built in Python
- Co-authored a research paper written on photon particle-wave duality

LEADERSHIP EXPERIENCE AND ACTIVITIES

University Brazilian Jiu Jitsu Club – Secretary and Authorized Representative Fall 2019 – Present

- Organized all paperwork for club travel, room reservations, photographers, and medical trainers
- Authored minutes at monthly meetings with RecSports officials

UT ACM – Active Member Fall 2019 – Present

HONORS

- Applied Research Laboratories Research Fellowship Spring 2020

ADDITIONAL INFORMATION

Languages: Proficient in Telugu | Basic knowledge of Spanish