NISHA GOWDA

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EDUCATION

The University of Texas at Austin **May 2022**
Bachelor of Science (B.S.), Electrical and Computer Engineering GPA: 3.55/4.00
Minor: Business
Focus: Software and Web Development
Relevant Coursework: Software Design Lab in Python, Software Design in Java, Software Design in C++, Algorithms, Linear Systems and Signals, Software Design in C++

EXPERIENCE

Incoming Software Engineering Intern – Charles Schwab **June 2021**

Undergraduate Research Assistant - *Wireless Networking Group* **September 2019- December 2019**
- Developed MATLAB scripts that replicate full-duplex wireless signal transmissions to improve the understanding of wireless-communication methods.
- Presented research to university Ph.D. students and professors to increase awareness of full-duplex capabilities.

PROJECTS

Mangapedia – *Software Design in Python* **October 2020 – December 2020**
- Experienced full-stack development and Agile while producing "Mangapedia" with team of 4
- Provided users a one-stop-shop for all thing's manga and anime using Kistsu, MAL-api, and Jikan APIs
- Utilized Python, HTML, CSS, JavaScript, MongoDB, and Flask for People model and instances.

Super Mario Auction - *Software Design in Java* **April 2020 – May 2020**
- Used Java to develop server-client auction simulation for customers to synchronously bid & sell
- Integrated tools (JavaFX) to create graphical interface with database & music
- Utilized JSON format with multithreading to facilitate communication between server and client.

C++ Plagiarism Checker - *Software Design in C++* **November 2019- December 2019**
- Utilized hash maps to compare essays and check for plagiarized content
- Combined hash table and collision to detect plagiarized content
- Scanned over 1000 documents within 8 seconds and had no memory leaks

Annoying Lemon Video Game – *Introduction to Embedded Systems* **April 2019 - May 2019**
- Created a three-level game for 1 player, four switches, 2 switches, 1 joystick, 2 moving sprites, and music
- Programmed TI MCU using C and Assembly to interface with LCD, ADC, DAC, Potentiometer, and LED

Skills

Software: Python, Java, HTML, CSS, C, C++, MongoDB, JavaScript, SQL, MATLAB, Swift, and Assembly
Tools: Linux, Git/GitHub, Flask, Bootstrap, Unit Testing, JSON, XML, Selenium Testing, Matplotlib and Numpy, Swift, Django, Multithreading, LTSpice, VSCode, IntelliJ, Microsoft PowerPoint/Word.Excel

US Citizen, eligible to work full-time in the United States. Strong in interpersonal, leadership and communication skills. Experienced working with Scrum Teams and in an Agile Environment.

LEADERSHIP EXPERIENCE AND ACHIEVEMENTS

- Publicity Chair – *IEEE Power and Energy Society* **January 2020- Present**
- Halliburton Scholar – *UT School of Business* **June 2020 – August 2020**
- T. W. Whaley, Jr. Friends of Alec Endowed Scholarship- *UT School of Engineering* **August 2019-Present**