Manav Arora

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Education

The University of Texas at Austin **August 2019 – May 2023**

Bachelor of Science-BS, Electrical and Computer Engineering

- Business Minor from McCombs School of Business
- GPA: 3.56/4.0 (University Honors)
- Relevant coursework: Linear Systems and Signals, Circuit Theory, Software Design and Implementation 1 and 2, Linear Algebra, Discrete Math, Probability and Random Process, Digital Logic and Design, Competitive Programming, Algorithms, Computer Vision

Experience

Amazon **May 2022 – August 2022**

Software Development Engineer Intern (Homepage CX); Austin, TX

∗ Designed and implemented a color-swatch component using TypeScript and CSS that rendered clickable, user-friendly circles to display different color options for a particular product
∗ Retrieved product information pertaining to product variations from an internal API sub resource to create a color-swatch view-model, which serves as a blueprint for future Homepage designs requiring a color-swatch component
∗ Designed unit tests using Jest to ensure production ready deployment

Mavenir **May 2021 – Oct 2021**

Operations and Training Development Intern; Richardson, TX

∗ Created training coursework on 5G and Open-RAN technologies for Mavenir University, the company's educational platform, to ensure new employees fully understand the technology
∗ Engineered 5G integration scripts on MATLAB to help the Advanced Technology team analyze and calculate the probability of path loss of a signal across a uniform distribution of users in different clusters (rural, urban, dense urban)
∗ Developed a MATLAB routine that filtered outliers from a dataset and then performed linear regression using the machine-learning toolbox

Driving Forward **June 2021 – August 2021**

Summer 21 Capstone Case Study Program; Chicago, IL

∗ Presented how Bitmain, a leading manufacturer of crypto-mining equipment, can restructure its energy consumption by focusing on wind energy rather than fossil fuels due to it being more environmentally sustainable
∗ Performed SWOT analysis and utilized International Data Corporation (IDC) charts for industry insights on the adverse effects of crypto mining, specifically with Bitcoin mining

UT Virtual Reality Lab **December 2019 –Jan 2021**

Undergraduate Lab Assistant; Austin, TX

∗ Developed 3D environments with game objects using Unity to simulate eye-tracking experiments
∗ Worked with MATLAB to analyze photogrammetric data to detect patterns in human search fixation when walking across different terrain

Projects

Weather App | *Java, Android Studio* **April 2021**

∗ Created an Android application using Java and Android Studio that showed current weather conditions and displayed hourly and weekly forecasts of Austin, TX
∗ Implemented several classes that used networking requests to interface with the Open Weather API
∗ Used a JSON Parser to query the "One Call API" for the weather information

Virtual Assistant | *Python* **November 2020**

∗ Built a Virtual Assistant using Python that could perform basic actions like play a requested song, tell time, or give the definition of a requested word
∗ Utilized several python libraries including pyttsx3, which does text-to-speech conversion, and pywhatkit, which uses key words to search and play a song on YouTube

Technical Skills

Languages: Proficient - Java, Python; Intermediate - MATLAB, HTML/CSS, JavaScript, TypeScript; Beginner - Jest
Developer Tools: VS Code, IntelliJ, Android Studio, Sublime Text
Technologies/Frameworks: Git, Linux, MongoDB, Flask, React.js, WordPress, LTSpice
Certifications: AWS Cloud Practitioner (in progress), Microsoft Office Specialist (2017)