VIKRAMJIT SINGH

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SUMMARY

CS Senior experienced in full stack web, software, and network development, possessing entrepreneurial skills and abilities to work in a demanding environment, looking for full time or internship opportunities starting 2022

EDUCATION

B.S., Computer Science   Graduating May 2022

Arizona State University, Tempe, AZ   GPA 3.74

Relevant Coursework: Foundations of Machine Learning, Object Oriented Programming and Data structures, Principles of Mobile App Development, Intro to Human Computer Interaction, Introduction to Informatics, Computer Networks, Computer Networks Security

Organizations: Software Developers Association (SoDA), ASU Linux Users Group, NSCS

PROFESSIONAL EXPERIENCE

Subject Area Tutor   **October 2019-Present**

University Academic Success Programs, ASU, Tempe, AZ

- Working as an academic tutor in a peer-to-peer learning model
- Assisting students in various courses including, but not limited to computer science and math

Undergraduate Teaching Assistant   **August 2019-May 2020**

Ira A. Fulton Schools of Engineering, Tempe, AZ

- Serving as an academic mentor for Digital Design students to help them with their coursework
- Engaging with students in and out of class to answer any queries and clear doubts about class materials
- Conducting various activities like class surveys, lead lectures and exam reviews for better results

ACADEMIC AND PERSONAL PROJECTS

Neural Network Classifier | Python, Jupyter, Google Colaboratory, Tensorflow   **Spring 2021**

- Developed neural network models for training with and classifying various MNIST and CIFAR-10 datasets
- Achieved accuracy up to 98.5% with the MNIST numbers dataset, and up to 75% with the CIFAR-10 dataset
- Worked with Google TPUs through Google Colaboratory to greatly accelerate model training

Tiny Video Player | NodeJS, Python, C/C++, Raspberry Pi, Arduino   **Spring-Fall 2021**

- Developed tiny video players capable of running up to 6 hours as a member of team for my capstone project
- Created UIs, functional aspects of device, as well as assembly and troubleshooting documentation

Message Scheduler | NodeJS, TwilioAPI, Java, Gradle, GCP, Firebase   **Fall 2019**

- Created a fully functional message scheduler allowing people to sign up to receive periodic messages
- Saved the user and message data encrypted on Google Firebase and accessed using Java and JS APIs
- Used a hybrid JS/Java backend on Google Cloud Platform to send messages using Twilio API
- Deployed the website as redundant on heroku and GCP, setting up both to communicate back and forth

Clynk | JavaScript, OpenCV   **Spring 2019**

- Developed a video conferencing app for those with visually/auditory impairments
- Used computer vision algorithms to detect user's hands and translate ASL to text/voice all on-device

Smart Home and Web Server | ReactJS, NodeJS, apache2, MariaDB, Ubuntu   **Since 2018**

- Developed a smart home system using web APIs and hardware to gain experience with UNIX and LAMP
- Unified home security, energy efficiency, environment control and entertainment systems
- Developed Frontend using ReactJS, with modular backend compatible with multiple smart assistants
- Used Arduino modules linked with a control machine to handle various requests to/from different devices

TECHNICAL SKILLS

Technologies: Java, C, C++, Python, Swift, Git, Zsh, ReactJS, NodeJS, Heroku, SQL, Firebase

Tools: Visual Studio, VSCode, Xcode, Eclipse IDE, Mu-Editor, Google Colaboratory, AWS, GCP