

# 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

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## EDUCATION

### B.S., Computer Science

Arizona State University, Tempe, AZ

Graduating May 2022

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

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## 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

### Co-founder, Developer; Visionary, Tempe, AZ

Summer 2019-Present

- Developer for a team of 3 working on a smart audio aid for the visually impaired
  - Responsible for creating mockups and demos of the product to present to potential clients
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## 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 upto 98.5% with the MNIST numbers dataset, and upto 75% with the CIFAR-10 dataset
- Worked with Google TPUs through Google Colaboratory to greatly accelerate model training

### 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 the differently abled
- Used computer vision algorithms to detect user's hands and translate ASL to text 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
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## 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