**Vivek B S Rao**

https://www.linkedin.com/in/vivek-srinivas-01922b124/**|** vbellala@asu.edu **|** (602) 500-1704 **|** Tempe

# EDUCATION\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Master of Science in Computer Science** *Jan 2021 – Nov 2022*

Arizona State University **CGPA – 4.22** *Tempe, AZ*

**TECHNICAL SKILLS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

C, C++, Python 3, Bash, Jira, Git, Linux, Keras, Matplotib, Pandas, Numpy

# WORK EXPERIENCE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Teaching Assistant** *Mar 2021 – May 2021*

*Arizona State University**Tempe, Arizona*

* Hosting recitations and helping students in their course work of “Principles of Programming Language” by clearing their doubts in the subject.
* Grading homeworks, assignments and exams for the course.

**Software Engineer 2** *Aug 2017- Oct 2020*

*Dell EMC* *Bangalore, India*

* Developed features and fixed bugs for a Leading Midrange storage product at Dell EMC and worked in the Platform space.
* Fixed 20+ security bugs and assisted in developing TLS 1.2 support for a storage product in a span of 5 months.
* Designed and developed an algorithm that predicts disk failures to avoid DFRG and beta tested it in T-systems data center.
* Proposed and developed a tool that visually rendered the tight coupling of live objects in the data path along with errors if any which reduced an engineer’s debugging time spent on it from hours to minutes.

**Software Developer Intern**  *Dec 2016- Feb 2017*

*Operations Research Machine Learning and Analytics Experts(ORMAE)**Bangalore, India*

* Implemented a Heuristic Algorithm developed by Chief Scientist Dr. Amit Garg in Python and tested the algorithms’ efficiency.

# PROJECT EXPERIENCE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Liveliness Detection using EEG waves in Adversarial Machine Learning,** *Arizona State University*

* By using an EEG dataset of 106 subjects with three trials of 120 seconds each as live class, worked on extracting features and generating models to detect false signals from 42 attack vectors in 4 categories.
* Was able to get accuracy of 99% on unseen arracks in classifying signals as fake or live EEG signals.

**Covid-19 symptom monitoring Application,** *Arizona State University*

* Developed an application to monitor the heart rate, respiratory rate and track the user symptoms through an android app.

**Smart Home gesture controller,** *Arizona State University*

* An application that takes in gestures from the users through an android phone and relays it to a Flask fog server was developed.
* CNN model was used to recognize the gestures made by the user on the fog server.

**Log Analyser using ELK Stack,** *Dell Technologies*

* Collaborated on team of 3 to design and develop a tool that finds deviations in ideal log flow and brings them to user attention to help in reducing the debugging time of an engineers from hours to minutes.
* Used ELK stack and won the award “Best in Theme” for “Big Data” as a part of Dell Global Storage Hackathon.

**Automatic Irrigation System,** *Bangalore University*

* As an academic project, implemented a system that maintains optimal moisture content in the soil for crop growth based on the crops planted.
* Fostered team collaboration by organizing regular meetings, discussing project time lines and reported progress to our project guide.

# AWARDS AND ACHIEVEMENTS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Proposed a Patent as a part of Dell Technologies that uses NLP techniques to narrow down anomalies in the log files generated by a system and has been applied in the USPTO.
* First prize in poster presentation competition for presenting the “Piezoelectric Materials and their

Applications” at the IEEE National Student Conference.

* Won one silver and two bronze medals on the Hacker Rank competitive programming platform. Have a score of 91 percentile in algorithms and data structures.
* Awarded Governor’s Award (Rajyapuraskar) by the state governor nominated by Bharat Scouts and

Guides

* Recipient of International Award for Young People(Bronze Standard) for my voluntary contribution to community service.