GOKUL SUBRAMANIAN
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Tempe, Arizona

EDUCATION

Master of Science in Computer Software Engineering ***Aug 2022 – May 2024****
Arizona State University, Tempe, Arizona *CGPA: 3.3/4*
Course Work: Software Agility, Software Verification and Testing, Statistical Machine Learning, Data Science, Semantic Web
Bachelor of Technology in Electronics and Communication Engineering ***Aug 2017 - May 2021***
Amrita Vishwa Vidyapeetham, Coimbatore, India *CGPA: 7.12/10.0*
Course Work: Data Communication and Networks, VLSI Design, Pattern Recognition, Soft Computing, Data structures and algorithm.

SKILLS

Programming Languages	C/C++, Python, SQL, Java, JavaScript, R, HTML and CSS
Data Visualization & Tools	Tableau, Power BI, Google Data Studio, Jupyter Notebook, Excel
Technologies (Java and python)	NumPy, TensorFlow, Matplotlib, NumPy, Subprocess, BeautifulSoup 4, Spring and Hibernate
Platforms and Frameworks	Windows, Linux, Git, Docker, Ixia, Wireshark, Extreme CLI, JIRA, Agile, Scrum
Networking	STP, OSPF, RIP, EAPS, IP, ARP, M-LAG, VRRP, Switching, Routing

WORK EXPERIENCE

Extreme Networks Inc, Cary, NC (*Development Engineering Intern, Sustaining Team***)** ***May 2023 - Aug 2023***

- Developed a Python script using Beautiful Soup 4 and Subprocess to scrape the internal organization website, identifying failed features in regression runs.
- Automated the requeuing of failed features for a branch in the regression server, leading to substantial time savings, reduced manual work, and enhanced efficiency by streamlining failure detection and requeuing processes.
- Implemented a Python script that extracts, cleans, and summarizes sustaining team data from the JIRA board using JQL queries, while automating the distribution of dynamic tables via email for task tracking and improved efficiency.
- Gained hands-on experience with networking protocols on Extreme's proprietary L2/L3 switches.
- Played a key role in setting up, maintaining, and managing the team's lab infrastructure.

Cognizant Technology Solutions, Chennai, India (*Programmer Analyst Trainee – Full Time***)** ***Aug 2021 – Jun 2022***

- Worked as a Java developer on a project for an insurance client, with a focus on PostgreSQL and Java technologies like Spring and Hibernate.
- Successfully resolved various bugs related to front-end, documents, and reports based on client and business analyst assignments.
- Collaborated with client business analysts to understand requirements, and efficiently analyzed and implemented them with coordination from the onsite team.

OptiSol Business Solutions, Chennai, India (*Python Programming Intern***)** ***Apr 2019 – May 2019***

- Gained proficiency in Python modules such as Selenium, BeautifulSoup, Requests, and Pandas.
- Formulated a Python program to demonstrate data scraping from specified URLs and performed data handling in Excel.

SELECTED PROJECTS

Detecting the probability of heart failure using a hospital dataset ***Aug 2020 - Sep 2020***

- Designed a machine learning model to predict the likelihood of heart failure based on factors such as age and dietary habits.
- Utilized feature selection techniques, including $\chi 2$ (Chi-Square) testing, to clean and enhance dataset quality.
- Achieved an impressive accuracy rate of 88.33%.

Traffic Sign Recognition using CNN ***Sep 2020 - Nov 2020***

- Formulated a Convolutional Neural Network (CNN) model for the classification of traffic signs.
- Trained and tested the model using the German Traffic Sign Recognition Benchmark (GTSRB) dataset.
- Accomplished an accuracy rate of 88%.

Multimodal Emotion Analysis using different Fusion Techniques ***Aug 2020 - Mar 2021***

- Led the development of a machine learning model for emotion detection using EEG, facial expressions, and speech data.
- Employed a novel fusion technique to concatenate data vectors from multiple sources.
- Attained a high accuracy rate of 91%.

PUBLICATION

Paper presented in Seventh International Conference on Bio Signals, Images, and Instrumentation (ICBSII), 2021.

- Co-authored and presented "Multimodal Emotion Recognition Using Different Fusion Techniques" at ICBSII 2021.
- Awarded 'The Best Paper Award' during the ICBSII'21 conference.

* Expected graduation date