Prabhat Racherla

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Work experience

Software Engineer 2
12/2022 - 01/2025

Microsoft Corporation

Developed and implemented the security and compliance policy for our Copilot LLM, focusing on data governance and protection. Engineered a mechanism for selective filtering of sensitive documents to prevent their use in LLM training and enhance security posture. Additionally, created algorithms to provide security scoring for LLM prompt responses.
Technology Stack: C#, Scala, Apache Spark 2, Azure Functions, Azure blob storage, Azure Data Factory.

Senior Software Engineer
06/2018 - present

Hewlett Packard Enterprise Company

Worked on building Role Based Access Control for HPE's Greenlake Project. Developed an authorization micro-service for a Cloud Network Management software that authorizes customers based on their roles and permissions.
Technology Stack: Python3, FastApi, Casbin, Asyncio, Pytest

Delivered Multi Tiered Licensing model for licensing micro-service of Aruba Cloud Project. New model charges customers based on device types, models, number of ports it supports and other variations. Worked on laying down the infrastructure in Swagger for all new UI Rest APIs, ensured backward compatibility of North bound APIs, Auto licensing and delivered other key functionalities.
Technology stack: Flask, Swagger, Pytest, K8s, Dockers, Pytest

Worked on 2 major Airwave8's feature (an on-premise Network Management Software solution) Wan monitoring and Zero Touch Provisioning. Both features aimed at monitoring and managing network devices like Access Points, switches and controllers. Developed all of the Rest APIs single handed in a Unit Test Driven development.
Technology stack: Perl and Shell Scripting

Have exposure for the CI/CD framework. Helped building the CI framework which enables developers to run Unit Tests/ Feature Tests in their own development K8s clusters, which results in easy debugging, gives faster feedback, supports parallel builds, runs in a containerized environment making it OS agnostic.
Technology stack: Jenkins, Python2, Dockers, Kubernetes, Shell Scripting, Jfrog lib management.

Software Developer Intern
06/2017 - 08/2017

Aruba, a Hewlett Packard Enterprise company

Designed software to configure, upgrade and monitor the usage of the network in real-time. Have worked on the VisualRF backend and frontend features of the AirWave technology. Wrote shell scripts to improve the existing build process to deploy the code into Kubernetes.

Won the third prize in Best in Class Presentation of Aruba Intern Project Fair 2017.

Software Developer Intern
12/2014 - 01/2015

INDO-GERMAN INSTITUTE OF ADVANCED TECHNOLOGY

Developed and deployed a website for handling the the accounts of IGIAT.

Education

Masters in Computer Science
2016 - 2018

Arizona State University, USA, GPA: 3.73/4

Bachelors in Computer Science and Engineering
2012 - 2016

Vellore Institute of Technology, Chennai, India, GPA:8.99/10

Skills

Python,Shell scripting	Languages: Intermediate to Advance Level knowledge.
Dockers,Kubernetes,C#	Deployments: Beginner to intermediate level knowledge.
Postgresql,Redis,Celery,Apache Spark, Azure Services	Databases and Queue Frameworks: Medium level knowledge.
Flask, Asyncio, Swagger, FastApi, Jfrog Software, Test Driven Development,	Libraries: Intermediate knowledge
Soft skills,Team work,Job handling	Interpersonal Skills: I behave professionally and expect same from others

Academic Projects

American Sign Language

Team size: 5

A project that aims at making the machine learn American Sign Languages. Worked with 10 words, which are 'ABOUT' 'AND', 'CAN', 'COP', 'DEAF','DECIDE', 'FATHER', 'FIND', 'GO OUT', 'HEARING'. Project was done in 4 installments which involved, data collection through wearing sensors, data processing, gesture annotation, feature extraction using FFT and DWT, feature selection using Principal Component Analysis, creation of data set for machines, finally using Decision Trees, Support Vector Machine and Feed Forward Neural Network using Keras to learn the gestures as user-dependent and user-independent.

Languages: MATLAB and Python
Libraries: fitctree, fitcsvm, Keras

Pacman

08/17 - 12/17

Team size: 1

Artificial Intelligence project to design a PACMAN game.
Project Description: http://ai.berkeley.edu/project_overview.html
Languages: Python
Algorithm: BFS, DFS, UCS, A* Search, Minmax, Expectimax, Alpha-Beta Pruning, Reinforcement Learning, Tensor Flow, Bayes Network

GitHub Trending Visualizer

01/2017 - 04/2017

Team size: 3

GitHub maintains a list of trending projects of each day, week and month, which is updated on a regular basis. So the idea of this project was to help the coders of the world, to understand these projects through visualizations in a web application.

Languages used : Python, HTML, JavaScript, CSS, SQLite3
Libraries: Flask, Twitter Bootstrap, Scrapy, D3
Video demo: https://www.youtube.com/watch?v=9NnVn7BPtTE&t=202s