Shrada Chellasami

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Education

Northeastern University **September 2022 – May 2024**
Master of Science in Computer Science *GPA: 3.9*

Dayananda Sagar University **August 2018 – May 2022**
Bachelor of Science in Computer Science *GPA: 3.6*

Technical Skills

Languages: Python, C++, Java, JavaScript, Bash/Shell scripting
Technologies/Frameworks: React, NodeJS, Tensorflow, Keras, Pandas, Numpy, Scikit-learn, JUnit, REST API, JSON
DevOps Tools: Git, Docker, Kubernetes, Jenkins, Continuous Integration/Continuous Deployment (CI/CD), GitHub
Databases & Cloud: SQL, MySQL, NoSQL, MongoDB, AWS (EC2, VPC, RDS, DynamoDB), Microsoft Azure
Software Development: Agile Methodology, Scrum, Jira, Test Driven Development (TDD), Code Reviews, Cross-functional team collaboration, Requirement analysis, Debugging, Troubleshooting

Experience

Software Engineer, Juniper Networks | Sunnyvale, California **May 2023 - August 2023**
Streamlining Test Automation and Data Management with Cutting-Edge AI Technologies

- Leveraged large language models (LLMs) to automate code generation of Python scripts to optimize test automation.
- Deployed ETL pipeline using Pandas, NLP techniques to extract and process data from 1000 Python, YAML, XML files.
- Loaded processed data into Azure data warehouse optimizing efficiency and scalability of data storage and retrieval.
- Researched training and fine-tuning procedures for various generative AI LLM models – GPT3, Bert, Roberta.

Machine Learning Engineer, Dayananda Sagar | Bangalore, India **August 2020 – March 2022**
Enhanced medical diagnosis through automated bone age prediction with Deep Learning

- Developed a novel algorithm to automate manual bone age prediction, eliminate human error and lower prediction errors.
- Trained and fine-tuned the VGG-16, VGG-19 deep learning model utilizing TensorFlow and Keras with accuracy of 95%.
- Research published in peer reviewed journal and presented at the Springer ICAIHC conference, 2022.

Software Engineer, MARG Innovations | Sunnyvale, California **January 2022 – June 2022**
Elevated Carpooling Experiences and Enhanced User Connectivity

- Developed a secure messaging interface for a carpool startup iOS app to enhance user engagement using UIKit and XCode.
- Leveraged Google Firebase NoSQL database query language for optimized data retrieval, reducing latency by 35%.
- Collaborated across teams using version control systems like Git during code reviews for requirement analysis.

Projects

Eduhub: Virtual classroom tool for educational collaboration **December 2023**

- A comprehensive platform for seamless access to course materials and assignment submissions for students and instructors.
- Implemented scalable backend infrastructure using Node and GraphQL, with MongoDB as database.
- Engineered responsive frontend interface with React components, ensuring seamless integration with backend architecture.
- Orchestrated the migration of the system to Amazon Web Services (AWS), using EC2, S3, DynamoDB.

DataSeeker : Optimized Search Engine with Real-Time Monitoring **January 2024**

- Developed a distributed, scalable system for web crawling, data ingestion, document indexing, ranking, and search with real-time monitoring capabilities.
- Leveraged natural language processing (NLP) techniques and machine learning algorithms for document indexing, ranking, and search engine development, providing relevant and accurate search results to users.
- Leveraged Kafka, PySpark, and Elasticsearch for distributed data ingestion, processing, and indexing.

RestoHub : Streamlined Operations for a Restaurant Management System **January 2023**

- Built a user friendly tool for restaurant staff to access and manage real-time orders and inventory data.
- Developed a SaaS interface and CRM (Customer Relationship Management) using Python backend and Flask for frontend.
- Designed a complex relational database schema in MySQL and CRUD operations to reduce query response time by 25%.