

SHRADA CHELLASAMI

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Education

Northeastern University

Master of Science in Computer Science

September 2022 – May 2024

GPA: 3.9

Dayananda Sagar University

Bachelor of Science in Computer Science

August 2018 – May 2022

GPA: 3.6

Technical Skills

Languages: Python, Java, C++, HTML, CSS, SQL

Technologies/Frameworks: React, Node.js, REST API, Firebase, iOS SDK, XCode, XML, JSON

DevOps Tools: Git, Docker, JUnit, Continuous Integration/Continuous Deployment (CI/CD)

Databases & Cloud: MySQL, NoSQL, MongoDB, PostgreSQL, AWS (EC2, RDS, DynamoDB)

Software Development: Agile Methodology, Scrum, Jira, Test Driven Development (TDD)

Experience

Juniper Networks, Software Engineer Intern | 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.
- Developed ETL pipeline using NLP techniques to extract and process data from 1000 Python, YAML, XML files.
- Researched training and fine-tuning procedures for various generative AI LLM models – GPT3, Bert, Roberta.

Research Assistant, Dayananda Sagar | Bangalore, India

August 2020 – March 2022

Enhanced medical diagnosis through automated bone age prediction with Deep Learning

- Developed novel ML algorithm to automate manual boneage 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

March 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%.

Projects

DocTalk : Connecting Users with Trusted Medical Experts for Enhanced Health Management January 2024

- Engineered dynamic view controller application using MVC architecture, iOS protocols, extensions and inheritance.
- Implemented 10 core functionalities using Xcode framework, UIKit, Firestore, REST APIs and Cocoa Pods.
- Enabled user authentication using Firebase Auth and created data models on the backend Firestore to efficiently manage user information in the database.

RestoHub : Streamlined Operations for a Restaurant Management System

April 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%.

SwiftSearch : Optimized data retrieval for an E-commerce website

January 2023

- Designed a high performance, multithreaded server in C++ using OOP principles, algorithms and data structures.
- Conducted performance benchmarking, debugging and achieved a 60% increase in throughput for concurrent requests

Stock Market Simulator : Empowered Portfolio Management and Investment Optimization December 2022

- Built a scalable tool for stock market simulation aiding users to manage portfolios performance and investments.
- Orchestrated a Java MVC application architecture for the backend, integrated real-time data through RESTful APIs.
- Applied Object-Oriented Design (OOD) principles incorporating Factory, Builder, and Singleton patterns.
- Attained a 90% code coverage through unit testing, ensuring a flexible and scalable application with business perspective.