Shrada Chellasami

+1 (781) 204-3500 chellasami.s@northeastern.edu c-shrada shradac shradac.github.io [portfolio]

Motivated Computer Science graduate with a Master's degree and over 2 years of hands-on experience. Specialties include: Building high-quality, scalable code by adhering to best practices in software engineering architecture. Passionate about software development and problem-solving with strong verbal and written communication skills.

EDUCATION

Northeastern University, Boston, MA September 2022-May 2024
Master of Science in Computer Science **GPA: 3.9/4**
Courses: Design Patterns, Database Management, Algorithms, Data Management Processing, Cloud Computing, Web Development, Human Computer Interaction, Mobile Application Development(IOS)

Dayananda Sagar University, Bangalore, KA August 2018-June 2022
Bachelor of Technology - Computer Science **GPA: 3.6/4**

TECHNICAL SKILLS

Languages: Java, Python, C++, JavaScript, HTML, CSS, SQL, Swift, Bash

Frameworks/Libraries: React, Redux, Node.js, JQuery, REST API, Docker, Firebase, iOS SDK, XML, JSON

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

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

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

RELEVANT EXPERIENCE

Software Engineer Intern - Juniper Networks May 2023-August 2023
- Architected 2 data pipelines by scrapping 1000 files and crafted prompts using data mining and Natural Language Processing (NLP) techniques for model learning.
- Researched training and fine-tuning procedures for various generative AI LLM models – GPT3, Bert, Roberta.
- Debugged and modeled data pipelines on Linux for automated script generation and reduced release time by 50%.
- Collaborated across cross-functional teams and stakeholders for requirement analysis and design decisions.

Full Stack Developer Intern - MARG Innovations March 2022 - June 2022
- Developed a user-friendly and secure messaging interface for a startup iOS carpooling app, enhancing user engagement during the Software Development Life Cycle (SDLC) leading to a 12% increase in active users.
- Leveraged Firestore NoSQL database querying language, optimized data retrieval and reduced latency by 35% for the real-time messaging system. Containerized the backend services using Docker for consistent deployment.
- Implemented robust error handling mechanisms using Swift, XCode and decreased crash reports by 18%.
- Developed well-documented, testable code, and collaborated on requirement analysis during code reviews.

PROJECTS

Eduhub | ***ReactJS, node.js, JavaScript, AWS*** September 2023 - December 2023
- Engineered a user centric full-stack web app creating over 25 ReactJS components and hosted on Amazon EC2 for streamlined access to course materials and assignment submissions. Setup a CI/CD pipeline for automated testing.
- Architected scalable backend using Node.js and RESTful APIs for integrating with NoSQL databases on Amazon DynamoDB supporting over 1000 documents. Enhanced data models and queries for performance.
  building, and deployment to AWS EC2.

Optimized data retrieval for an E-commerce website |***C++, OOPS*** January 2023-May 2023
- Designed a high performance, multithreaded server in C++ using OOP principles and Dijkstra's algorithm.
- Conducted performance benchmarking, debugging and achieved 60% increase in throughput for concurrent requests.

Restaurant Management System | ***MySQL, Python, Flask, JavaScript*** October 2022-December 2022
- Built an intuitive SaaS interface and CRM for a restaurant using python, flask, to increase staff productivity and customer experience for real time orders.
- Designed a complex relational database schema using CRUD operations and reduced query response time by 25%.

Stock Market Simulator | ***Java, JSwing*** September 2022-December 2022
- Constructed and implemented a high-performance scalable stock market simulator application with Java and JSwing.
- Integrated third-party API and used 5 design patterns, SOLID principles, object-oriented design and MVC architecture for flexibility and reusability.
- Conducted end-to-end testing, wrote 500 unit tests with JUnit and integration testing to validate functionality components achieving 90% code coverage.