

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

Relevant Coursework

- Design Patterns
- Database Management
- Algorithms
- Data Processing
- Cloud Computing
- Web Development
- UI/UX Design
- Mobile App Dev(iOS)

Technical Skills

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

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

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

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

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

Experience

Software Engineer Intern

Juniper Networks

May 2023 – August 2023

Sunnyvale, California

- Architected 2 data pipelines by extracting data in XML, JSON, and YAML format from 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 Innovation

March 2022 – June 2022

Sunnyvale, California

- Developed a secure messaging interface for a startup iOS app using UIKit and XCode, enhancing user engagement during the Software Development Life Cycle (SDLC) leading to a 12% increase in active users.
- 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, robust error handling mechanisms, and decreased crash reports by 18%. Containerized the backend using Docker microservices.

Projects

Eduhub | *ReactJS, node.js, JavaScript, AWS*

December 2023

- Engineered a user-centric full-stack web app creating over 25 ReactJS components and hosted on Amazon EC2.
- Set up a CI/CD pipeline for automated testing and streamlined access to course materials and assignment submissions.
- 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 and scalability.

Optimized data retrieval for an E-commerce website | *C++, OOPS*

April 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.

Restaurant Management System | *MySQL, Python, Flask, JavaScript*

March 2023

- Built an intuitive SaaS interface and CRM (Customer Relationship Management) for a restaurant using Python for the backend and Flask for frontend to increase customer experience for real-time orders.
- Designed a complex relational database schema in MySQL CRUD operations and reduced query response time by 25%.

Stock Market Simulator | *Java, JSwing, OOD, SOLID Principles*

January 2023

- Designed and implemented a scalable stock market simulator application with Java and JSwing to manage portfolio.
- Integrated third-party API and used five design patterns, solid principles, object-oriented design, and MVC architecture for flexibility and reusability. Conducted end-to-end testing and over 500-unit tests with JUnit.