
EDUCATION

- **North Carolina State University** Raleigh, NC
Masters of Science in Computer Science; GPA 4.0 Jan. 2021 - Present
Coursework: Computer & Network Security, DBMS, Automated Learning and Data Analysis, Software Engineering, Cryptography, Graph Data Mining
- **Dhirubhai Ambani Institute Of Information and Communication Technology** Gandhinagar, India
Bachelor of Technology in Information and Communication Technology; GPA: 8.19/10 July. 2014 - June. 2018

TECHNICAL SKILLS

- **Languages & Frameworks:** Java, SpringBoot, JavaScript, NodeJS, Express, Angular, Python, Go, bash, React, Bootstrap, SQL
- **Software & Libraries:** Redis, RabbitMQ, AWS, Docker, Jenkins, Git, MongoDB, Postman, JMeter, BeautifulSoup, Pandas
- **Strengths:** Software Development, System Design, Object Oriented Programming, Database Management, Data Structure & Algorithms

EXPERIENCE

- **North Carolina State University** Raleigh, NC
Research Programmer, Graduate Research Assistant Dec 2020 - Present
 - SimStudent is an ML-agent used as a synthetic tutee for students to learn by teaching
 - Worked on making SimStudent available on the web by transforming the existing java based desktop application to a web based application using Spring Boot, Angular & MySQL
 - Made it support concurrent users and implemented service for health checking servers and routing users to appropriate servers (as routing needed to be sticky).
- **General Electric** Bengaluru, India
Software Engineer, Tech Anchor June 2018 - November 2020
 - Developed an application that models cost of service agreements between GE and wind farm owners. Technologies used: Spring Boot, Angular, Node and other AWS services
 - Setup OAuth2 authentication and authorization for the cost modelling application
 - Created a reverse proxy service using Node that acted as an endpoint for incoming requests
 - Developed Raven, a service for sending targeted email, text message and push notifications based on user location. Technologies used: Spring Boot, RabbitMQ, UrbanAirShip
 - Dockerized local development setup (which significantly reduced on-boarding time) and automated deployment using Jenkins
 - Created generic CRUD API to enable dynamic crud operations without any boiler plate (used for prototyping)
 - Led migration from Cloud Foundry to AWS, as well as efforts for refactoring and performance optimization (increased performance of certain core APIs by more than 30%)
- **Software Engineer Intern** Jan 2018 - June 2018
 - Developed a notification system for handling push notifications. Technologies used: JavaScript, NodeJs, Express, Spring Boot
 - Handled the end to end development of a product catalog web app. Technologies used: Angular 6, NodeJS, Express
- **Dhirubhai Ambani Institute Of Information and Communication Technology** Gandhinagar, India
Teaching Assistant for Data Structures & Algorithms, Research Assistant
 - Sentiment Analysis - created Python script for collecting, cleaning and processing more than 1 Million tweets

PROJECTS

- **Realtime Chat Room Application:** Developed a real time chat room application using Spring Boot, Web Sockets and RabbitMQ
- **Big Box Reatiler Database Service:** Designed and implemented a database service for a Costco like store using MariaDB & Spring Boot. Performed partitioning, indexing, and query optimizations to improve performance
- **Graft:** Developed a raft based distributed Key Value store in Go, did a manual implementation of raft instead of using an existing library
- **API Rate Limiter:** Developed an API rate limiter in NodeJS using Express and Redis
- **Casper web game:** Developed a game similar to flappy-bird using JavaScript, added social media login using OAuth2 with SpringBoot and maintained leaderboards using Redis

LEADERSHIP & AWARDS

- Led knowledge sharing sessions across GE for sharing software engineering practices and concepts
- 2 Impact Awards, General Electric
- International Rank 5, International Mathematics Olympiad 2012