

EDUCATION

University of Texas at Dallas, US - MS in Computer Science May 2024
Coursework: Algorithms, Statistics and Discrete structures

Anna University, India - B.Tech Information Technology | GPA: 8.83 / 10 May 2020

SKILLS

Programming languages and Database: Python, Java, Kotlin, Oracle SQL, MySQL

Web technologies and tools: HTML, CSS, Javascript, Node.js, Spring Boot, GraphQL

Cloud / DevOps technologies: AWS, Terraform, Docker, Jenkins, Kubernetes

PROFESSIONAL EXPERIENCE

Software Engineer: Athenahealth, India Oct 2020 - July 2022

Tech stack: Kotlin, Spring boot, Node.js, Python, AWS, Terraform, Jenkins, Perl, SQL, GraphQL, Grafana, Prometheus

- Part of the platform team responsible for generating over a million CCDA documents every day.
- Developed and exposed USCDI-CCDA API endpoints to adhere with 21st century cures act.
- Built the CICD pipeline with Jenkins and Terraform for deploying the microservice in AWS.
- Designed Grafana dashboard with metrics captured from prometheus to monitor the system.
- Developed a Node.js based GraphQL application, reducing the latency of API calls by 40%
- Integrated four security scanners, preventing over 50 potential security threats.
- Wrote unit test cases with Junit and Jest framework to at least have 95% code coverage.
- Mentored two new hires on project workflow, best coding practices, and agile methodology.
- Led daily standup and bi-weekly sprint reviews.

Software Engineering Intern: Athenahealth, India Jan 2020 – Oct 2020

Tech stack: Perl, Python, Elasticsearch, Logstash, Kibana, AWS, SQL

- Designed and implemented an UX feature reducing the error caused by BPO agents by 10%.
- Created MVP search engine using Elasticsearch bringing down global search time to 0.5 seconds from two seconds and, received recognition from the senior vice president of product for the same.

Dforth technologies: Freelance AI Consultant, Chennai, India June 2019 - Jan 2020

Tech stack: Python, Tensorflow, OpenCV, AWS

- Innovated a Computer Vision system to analyze the swing action of the golfer and provide performance feedback with 92% accuracy for [swingzen.com](#) using PoseNet and TensorFlow.

Siemens Ltd: Summer Intern, Chennai, India May 2019 - June 2019

Tech stack: Python

- Accelerated pre-processing and post-processing of FEA using Python saving 20 mins/person.

ACADEMIC / PERSONAL PROJECTS

Patient Portal Sep 2022

Tech stack: Flutter, Firebase

- Designed and developed a cross platform app for the patients and their family to keep track of events performed by the practitioner for *Children's Health* during HackDFW (24 hour hackathon).

Forecasting Covid 19 cases and its impact on the environment April 2020 - Aug 2020

Tech stack: Python, Keras

- Studied and forecasted the impact of Covid 19 cases in Chennai, India using time series models ARIMA, LSTM, STACK-LSTM and PROPHET.
- Published the paper in [Results in Physics - Elsevier journal](#) with [84 citations](#)

Personal Fitness Management July 2019 - Mar 2020

Tech stack: Python, Tensorflow, AWS

- Developed an AI system to evaluate the posture of bicep curls, lunges, squats and planks using pose estimation and deployed it at AWS.

Autonomous Drowning Rescue System June 2019 - Sep 2019

Tech stack: Python, YOLO, Tensorflow, AWS, Aurdino, Raspberry Pi

- Implemented an object recognition model using YOLO to identify humans who are about to drown in the swimming pool with 96% accuracy.
- Honorable Mention at IEEE YESIST 12, an International Innovation Challenge with participants from more than 10 countries, held at Stamford International University, Thailand.
- **80 hours into hacking and emerged as the winner in 4 out of 5 hackathons participated**