

AJAY KAARTHIC JEYSREE

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EDUCATION

Master of Science in Computer Science

May 2024

The University of Texas at Dallas

Bachelor of Technology in Information Technology

May 2020

Sri Venkateswara College of Engineering

CGPA: 8.83 / 10.0

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

Machine learning frameworks / libraries: Scikit-learn, OpenCV, TensorFlow, NumPy, Pandas

PROFESSIONAL EXPERIENCE

Software Engineer: Athenahealth, India

Oct 2020 - July 2022

- Engineered a clinical document generation engine using spring boot and kotlin, serving **1 million** requests/day.
- Built the CICD pipeline with Jenkins and Terraform for deploying the service in AWS.
- Developed an Apollo express GraphQL server, reducing the latency by 300ms.
- 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 sprint standup and bi-weekly sprint reviews.

Software Engineering Intern: Athenahealth, India

Jan 2020 – Oct 2020

- Designed and implemented a 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 as a result, received recognition from the senior vice president of product for the same.

Dforth technologies: Freelance AI Consultant, Chennai, India

June 2019 - Jan 2020

- Innovated a Computer Vision system to analyze the swing action of the golfer and give feedback with 92% accuracy for swingzen.com using PoseNet and TensorFlow.

Siemens Ltd: Summer Intern, Chennai, India

May 2019 - June 2019

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

ACADEMIC PROJECTS AND ACHIEVEMENTS

[Forecasting Covid 19 cases and its impact on the environment](#)

April 2020 - Aug 2020

- 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 **64 citations**

[Personal Fitness Management](#)

July 2019 - Mar 2020

- Developed a system to evaluate the posture of bicep curls using pose estimation and deployed it at AWS.

[Autonomous Drowning Rescue System](#)

June 2019 - Sep 2019

- Implemented an object recognition model using YOLO to identify humans who are about to drown in the swimming pool with 96% accuracy.
- Honourable 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**