

Ruturaj Chintawar

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Education

University of Southern California

Master of Science in Computer Science; Algorithm, Database, Applied NLP

Los Angeles, CA

Jun 2023 - Dec 2024

University of Mumbai

Bachelor of Engineering in Computer Engineering; GPA: 3.8 (9.37/10.0)

Mumbai, India

Aug 2017 – Jul 2021

Technical Skills

Programming Skills: Java, Spring Boot, C#, ASP.NET Web API, ASP.NET MVC, WCF, EF Core, Python, C++

Web Technologies: HTML5, CSS3, Bootstrap, REST API, JavaScript, jQuery, Angular, Node.js, .NET MAUI, WPF

Database: SqlServer, OracleDb, MySql, MongoDB, Postgres+PostGIS, FireBase

Others: Git, Jira, NUnit, Azure, CI/CD, Docker, Kubernetes, Elastic Search

Experience

Trackwizz (Mumbai, In)

Jul 2021 - May 2023

Software Engineer *Trackwizz Next*

Nov 2022 - May 2023

- o Spearheaded the redesign and deployment of TrackWizzNext Screening CRM API, rectifying previous system shortcomings. Employed a distributed database, leading to a remarkable reduction in turnaround time from 0.5 to 0.1 seconds.
- o Successfully implemented an Elastic Search-based logging search and analysis system, combined with Kibana-based visualization. This implementation resulted in a significant reduction of 20% in support time.
- o C#, ASP.NET Web API, EF Core, Elastic Search, Postgres, React, Taliwandcss, Azure, Git

Associate Software Engineer *Trackwizz Anti-Money Laundering Solution*

Jul 2021 - Oct 2022

- o Successfully overhauled and restructured the outdated Frontend architecture of the AML Manager, achieving an impressive 60% reduction in both development and quality assurance timelines.
- o Led the TrackWizz's high-performance PAN Matching service development, handling 2500 requests/sec. Integrated advanced encryption, and decryption algorithms. Successfully deployed the service on the Azure app server.
- o Impressively pioneered the end-to-end development of a comprehensive unit test solution for TrackWizz's transaction monitoring module. Consistently achieved an average reduction of 10 bugs during each production cycle.
- o Took charge of refactoring legacy code and optimizing SQL queries, leading to a remarkable 50% decrease in average query time. This enhancement played a crucial role in improving data retention capabilities.
- o C#, ASP.NET MVC, WPF, WCF, Angular, NHibernate, RDLC, Azure, SQL server, NUnit, Jira, VSTS

Coding Ninjas (Delhi, In)

Aug 2020 - Dec 2020

Teaching Assistant *Competitive Programming Course*

- o Provided mentorship to a group of 75 students, guiding them in excelling at competitive programming questions.
- o Collaborated with students, exploring varied algorithmic strategies for deeper comprehension. Provided guidance, enhancing their learning. Aided in problem formulation, achieving average response time under 40 minutes.

AutoDice (Mumbai, In)

May 2019 - Jun 2019

Android Developer

- o Led charge of crafting reusable UI components and spearheaded the API development for the Android application "RentIt."
- o Developed an interactive User Interface (UI) using XML markup language and orchestrated (CRUD) operations via PHP scripts, seamlessly integrated with a MySQL database.
- o Android Studio, MySql, Java, FireBase, Android UI.

Projects & Publications

Multiple Intersection Traffic Control using Reinforcement Learning

- o Implemented **Deep Q-Learning** to optimize waiting times at a single intersection. ISBN: 978-1-6654-1836-2.
- o Substituted the previous single intersection algorithm with an **OpenAI Multi-Agent Deep Deterministic Algorithm**, resulting in a remarkable 50% reduction in average waiting time.

Alzheimer's Assistant

- o Engineered an Alzheimer's Assistant application that incorporates a the advanced **Viola-Jones algorithm**.
- o Enabling precise facial recognition of family members with a remarkable 90% accuracy rate. ISSN: 2233-7857 IJFGCN.

Achievements and Contributions

- o In 2022, Conducted a Knowledge Transfer Session on "NHibernate" for the 100-member development team at Trackwizz, providing a comprehensive explanation of the framework and its application in their projects.
- o Laureled by Trackwizz in October 2021 and November 2022 for pivotal contributions culminating in the timely completion of the surveillance and FIU models within an impressive 40-day window.