

Rohit Kadappa Gundakalli

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EDUCATION

University Of Massachusetts Amherst

Master of Science in Computer Science | GPA: 4.0/4.0

Coursework: NLP, RL, ML, Advanced Algorithms, Distributed & Operating Systems, Systems for Data Science, Statistics, Business Intel & Analytics.

Massachusetts, USA

Expected Graduation – Dec 2024

Bangalore Institute of Technology

Bachelor of Engineering, Computer Science Engineering | GPA: 8.3/10.0

Coursework: Data Structures & Algorithms, Databases, Machine Learning, Cloud Systems, UNIX Programming, Software Testing, Python Programming.

Bangalore, India

Aug 2016 - Aug 2020

IBM Data Science Professional Certification

coursera.org/account/accomplishments/professional-cert/97ZKH47TXMTQ

Coursera

Mar 2022 - Aug 2022

PROFESSIONAL EXPERIENCE

Wow Labz Pvt. Ltd. | ([wowlabz.com](https://www.wowlabz.com))

Bangalore, India

Software Developer

Aug 2021 - Dec 2022

- **Born2Die** - A gaming platform with **1M+ users**, which uniquely combines gaming with crypto trading.
 - Orchestrated the implementation of game registration, event management, and wallet management modules utilizing Python FASTApi and Kafka **within a timeframe of 3 months**. These modules contributed to a **15% decrease in processing time**.
 - Implemented event capturing pipeline using web sockets and producer-consumer mechanism to capture the game events and persist them in Redis for processing by other micro-services with **response time of a few hundred milliseconds**.
 - Developed an event processing algorithm to process events and disburse rewards. The algorithm processed **1000s of events in less than a second** in an automated fashion with various configurable parameters and generated reports for the same.
- **Damsol** - Crypto trading applications with a 50K userbase, that provided portfolio management capabilities in INR.
 - Spearheaded the creation of core modules, including user and wallet management from inception to execution in Python **boosting user engagement by 30%**.
 - Prototyped an efficient KYC pipeline with retry mechanism using Redis, Python FASTApi scheduler and AWS services, **reducing user onboarding time by 40%** and ensuring compliance with regulations.
 - Successfully integrated payment gateways facilitating payouts to users, resulting in a **20% reduction in transaction time**.
- **2Gether** - Workspace Management Application that provides and manages office space to 200+ tech companies in Bangalore.
 - Engineered the backend system for the admin app, achieving streamlined member onboarding processes and providing comprehensive overviews of users, bookings, and revenue, all leading to a **15% increase in administrative efficiency**.
 - Pioneered the development of meeting room booking and time slot management modules resulting in a **significant enhancement to user experience**, earning a positive acclaim from end-users for simplifying the room reservation process.
 - Programmed an invoice generation module, **reducing about 100 hours** of manual invoice creation efforts and expediting revenue tracking. This module facilitated a **precise revenue projection**.

Ellucian | ([ellucian.com](https://www.ellucian.com))

Bangalore, India

Software Developer

Jul 2020 - Aug 2021

- **Banner Human Resource** -
 - Revamped the HR processes from legacy technology (Pro C) to Java, resulting in a **40% improvement in process efficiency**.
 - Developed a seed data extractor tool in python which fetched remote data based on input conditions and created XML files as output, these files acted as input files to the HR processes. This tool saved around **5 hours per developer per week**.
 - Programmed automated functional batch test suite to ensure that the new processes worked efficiently with other modules.

PROJECT EXPERIENCE

Quote Classification and Interpretation | (Python, Hugging Face, PyTorch, Colab)

Feb 2024 - May 2024

- **Created a multi-label quotes dataset and fine-tuned** state-of-the-art Transformer models (**BERT, GPT-2, and T5**) to perform multi-label classification of quotes, **achieving an accuracy of 63%**.
- Explored **zero-shot, one-shot, and few-shot** prompting techniques on **T5** and **Gemma** models to enhance the quote interpretation task. Conducted extensive analysis of the results, **improving the models' accuracy to 85%**.

Stock Trader Server | (Python, Docker, Amazon AWS)

Apr 2023 - May 2023

- Designed a **multithreaded stock trader** server with a **thread pool model** for concurrent request handling.
- Implemented a **fault-tolerant system** by replicating the database three times. Integrated **caching** to boost API request throughput while ensuring **strict consistency** across all replicas for a resilient and **high-performance trading platform**.

SKILLS

- **Technology** : Python, MongoDB, SQL, Kafka, Nuclio, Redis, HTML, Groovy, C, Java, OpenCV.
- **Tools** : Git, AWS, Docker, CI/CD Pipeline, TensorFlow, Microsoft Suite, UNIX, Postman, Jira, Pandas, NumPy.