

# ROHIT KADAPPA GUNDAKALLI

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## Education

### University of Massachusetts Amherst

Feb 2023 – Dec 2024

*B.S., in Computer Science* | **GPA: 3.97/4.0**

*Amherst, USA*

**Coursework** : Advanced Algorithms, NLP, RL, ML, Distributed & Operating Systems, Software Engineering, Statistics

### Bangalore Institute of Technology

Aug 2016 – Aug 2020

*B.E., in Computer Science* | **GPA: 8.3/10.0**

*Bengaluru, India*

**Coursework** : Data Structures & Algorithms, Databases, Machine Learning, Python Programming

## Experience

### Wow Labz Pvt. Ltd.

Aug 2021 – Dec 2022

#### Software Developer

*Bengaluru, India*

- Designed and implemented game registration, event management, and wallet management modules for a crypto-enabled game platform with **1M+ users**, using Python FASTApi and Kafka within a **3-month timeframe**.
- Built an event-capturing pipeline using web sockets and a producer-consumer mechanism, enabling the persistence of real-time events in Redis with a response time of a few **hundred milliseconds**.
- Developed an advanced event processing algorithm, efficiently disbursing rewards for thousands of events per second and automating report generation with configurable parameters.
- Spearheaded development of core modules, including user and wallet management, for a crypto trading app with **100K+ users**, making it one of the **first applications in India to support INR trading**.
- Prototyped an efficient **KYC (Know Your Customer) pipeline**, leveraging **Redis**, **Python FASTApi scheduler**, and **AWS services**, reducing **onboarding time by 20%** while ensuring **user privacy**.
- Engineered the **backend system** for the admin app of a workspace management platform for **200+ tech companies** in Bengaluru, improving **member onboarding** and **administrative processes by 15%**.
- Programmed an **automated invoice generation module**, reducing **20 hours of manual effort** and expediting **revenue tracking** for precise projections.

### Ellucian Higher Education Systems

July 2020 – Aug 2021

#### Software Developer

*Bengaluru, India*

- Engineered an advanced data extraction system using Python to retrieve specific remote datasets as per user specifications; delivered critical XML outputs which optimized HR workflows and reclaimed **5 hours per week**.
- Revamped the HR processes of the Banner HR ERP from legacy Pro C to Groovy.
- Programmed automated functional batch test suite to ensure the new processes worked efficiently with other modules.

## Projects

### University Buy Sell Application | Python, MongoDB, HTML, JavaScript, CSS, AWS, SendGrid

Nov 2024

- Developed the student login and registration module with two-factor authentication, utilizing **Python FASTApi**, **MongoDB**, and **SendGrid** to send OTPs to registered emails.
- Built the **listing management module** with image upload functionality stored in **AWS S3** and implemented **admin analytics** to track popular listings, inquiries, and revenue turnover from sold transactions.

### Quote Classification and Interpretation | Python, Hugging Face, PyTorch, Colab

May 2024

- Prepared 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 and improved the prompts, resulting in **85% accuracy**.

### Stock Trader Server | Python, Docker, Amazon AWS

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**.

## Technical Skills

**Languages:** Python, Java, C, PySpark, R, Groovy, C++, React, JavaScript, GO, SQL

**Tools:** Git, AWS, Docker, CI/CD Pipeline, TensorFlow, Postman, Jira, Pandas, NumPy

**Technologies:** MongoDB, MySQL, Kafka, Nuclio, Redis, OpenCV, NodeJS, FastAPI