

# KOMAL TRISHNA BEHERA

Bengaluru, Karnataka, India

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## Education

### National Institute of Technology, Rourkela

Bachelor of Technology in Electrical Engineering

CGPA - 8.62/10

July 2018 – May 2022

Rourkela, Odisha, India

### Relevant Coursework

- Data Structures
- Database Management
- Operating Systems
- System Design

## Experience

### Intuit

Dec 2024 – present

Software Engineer 2

Bengaluru, Karnataka, India

- Leading the modernisation of klass feature in QuickBooks by refactoring legacy data transformation and service logic.
- Redesigned data integration flows between frontend and backend services using GraphQL resulting in 30% reduction in API payload size and enhanced load times.
- Designed and developed a robust Kafka consumer to reliably ingest real time event streams from monolith, persisting into the microservice's domain model.
- Contributed to frontend plugins to integrate the modernized backend calls resulting in an improved page load time by 25% while enhancing code modularity and maintainability .

### Adobe

Jul 2022 – Nov 2024

Software Engineer 2

Bengaluru, Karnataka, India

- Contributed to the design and development of a scalable microservice architecture for Adobe Sign, reducing database load by 28%, which significantly improved system reliability and user experience.
- Developed and implemented an in-house token-based authentication mechanism, strengthening login security for millions of Adobe sign users.
- Engineered critical RESTful APIs facilitating the seamless migration of user provisioning for 92% of Adobe Sign's customer base.
- Developed and optimized cross-database replication in Azure and AWS environments, resolving performance bottlenecks and improving operational efficiency due to concurrency.
- Awarded multiple Spot Awards for outstanding contributions to Adobe Sign's architecture modernization and promoted to Software Engineer 2 within a year due to exceptional performance and leadership on mission-critical projects.

### Wells Fargo

May 2021 – July 2021

Software Engineer Intern | *certificate*

Bengaluru, Karnataka, India

- Implemented machine learning algorithms to optimize cash demand forecasts for ATMs, achieving an accuracy of 98.7%, significantly reducing operational inefficiencies.
- Built a robust REST API using FastAPI and PostgreSQL to manage ATM withdrawal data, streamlining data processing and improving system throughput.
- Automated CI/CD pipelines using GitHub Workflows, achieving 90% code coverage and enhancing deployment efficiency.

## Projects

### Bidding Service | Java, Spring Boot, MySQL

- Designed and developed a bidding platform with secure JWT Authentication, enabling seamless registration, bidding, and auction closure for vendors and bidders.
- Created a background job system to automate bid winner notifications, enhancing the user experience and system automation.

### Online Examination Portal | Java, Spring Boot, MySQL

- Architected a scalable online exam system with role-based authentication for admins and students.
- Implemented exam scheduling, student-submission processing, and real-time score calculations, supporting up to 10,000 concurrent users.

### Disability Assistance Application | Python, Computer Vision

- Built a comprehensive accessibility tool with hand gesture recognition for the deaf and dumb using OpenCV and TensorFlow, achieving 95% accuracy.
- Integrated speech-to-text functionality and developed an image-captioning model for visually impaired users using LSTM.

## Technical Skills

**Programming Languages:** C++, C, Python, Java, Kotlin

**Frontend:** HTML, CSS, Bootstrap, JavaScript, jQuery, ReactJS

**Backend:** NodeJS, FastAPI, Django, Spring Boot

**Database:** MySQL, SQLite, PostgreSQL