

# PARTHO MAL

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## Summary

Full-stack developer with expertise in Go, Python, JavaScript, and Java. Experienced in building scalable backend systems, real-time web apps, and cloud-native architectures using Redis, PostgreSQL, and Docker. Strong foundation in DSA, system design, computer networks, and operating systems. Active open-source contributor focused on delivering efficient, production-grade software.

## Projects

### Shortly - URL Shortener Platform with Analytics & QR

May - July 2025

Go (Gin), PostgreSQL, Redis, JWT, React, Shadcn/UI

- Engineered a high-performance URL shortener handling **13K+ req/sec** (load-tested via *hey*)
- Reduced redirect latency by **70%** through Redis caching and optimized connection pooling
- Integrated **JWT-based authentication** and **QR generation** with a real-time analytics dashboard
- Deployed at: [shortly.streamlab.in](https://shortly.streamlab.in)

### E-Commerce Sentiment Analyzer (Flipkart & Amazon)

Jan - April 2025

Python (TextBlob, Gemini API), MongoDB, Next.js

- Analyzed **100+ product reviews** using **Gemini API + TextBlob** for sentiment classification
- Automated NLP pipeline reduced manual review time by **90%**
- Built a Next.js dashboard visualizing **reviews summaries and pricing trends**
- Deployed at: [ecommerce-sentiment-analysis.vercel.app](https://ecommerce-sentiment-analysis.vercel.app)

### 3D Art Gallery Platform

Aug - Dec 2024

Node.js, Express, EJS, PostgreSQL, SSR

- Developed a **server-rendered** art gallery with secure uploads and collection browsing
- Improved page load time by **40%** using SSR and optimized SQL queries
- Built an **admin dashboard** with role-based access supporting 50+ artworks
- Deployed at: [artgallery.up.railway.app](https://artgallery.up.railway.app)

## Leadership & Extracurriculars

### Google Cloud Study Jam Program, Google | Group Leader

Sep 2023

- Led peer learning sessions on Google Cloud Fundamentals and Generative AI
- Coordinated team progress and skill development as Group Leader.

## Technical Skills

**Languages:** Python, Go, JavaScript, TypeScript, Java, C++, Bash

**AI & ML:** TensorFlow, PyTorch, Scikit-Learn, OpenCV

**Frontend:** React, Next.js, TailwindCSS, Shadcn/UI

**Backend:** Gin (Go), Node.js, Express, REST APIs, GraphQL, gRPC

**Databases:** PostgreSQL, MySQL, MongoDB, Redis (Caching)

**DevOps & Cloud:** Docker, Kubernetes (K8s), Jenkins, AWS (Amazon Web Services), Azure, Google Cloud

**Tools & Systems:** Git, GitHub, Postman, JWT, OAuth2, Linux, Web Security, SSR

## Education

### Bachelor of Engineering – Information Technology

June 2022 - June 2026

Vasantdada Patil Pratishthan's College of Engineering, Mumbai University, India (CGPA: 8)

- Core Subjects: Data Structures, Operating Systems, DBMS, Computer Networks

### Senior Secondary Education – HSC (Class XII)

March 2020 - March 2022

Guru Nanak Khalsa College of Arts, Science & Commerce, India (Aggregate: 64.17%)

- Relevant Coursework: Mathematics, Physics, Chemistry, Computer Science