

Hitarth Thummar

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Backend Developer with 5+ years of experience delivering high-performance solutions that scale. Reduced server response times by 98% and doubled system throughput through in-memory caching implementation. Expertise in GoLang, Node.js, Python and cloud platforms (GCP, AWS), with a track record of architecting systems serving 1M+ users.

WORK EXPERIENCE

Rightsol pvt ltd.

Jul 2024 – Present

Backend Engineer

- **Role and Responsibilities:**

- Writing clean, scalable code for production apps with ~ 1M+ users.
- Maintaining existing legacy codebases and improving upon them.
- Handling deployments of the backend code on Google cloud using cloud run, cloud functions and compute instances.
- Streamlined database management by migrating from Firestore to MongoDB, improving query speeds and enabling multilingual data support.
- Writing migration scripts to translate data into multiple languages.

- **Highlights:**

- Improved query efficiency by reducing query time from 7s to 20ms by implementing a localized cached database within a Golang API.
- Spearheaded repository cleanup campaign which involved clearing legacy codebases of plaintext credentials, enhancing data protection compliance and reducing security risks.
- Refactored a certificate generation portal to use HTML Canvas instead of a third-party library, improving response time by ~40% and providing support for Unicode fonts in certificates.
- Transitioned from static certificate generation stored as files in Google Cloud to runtime certificate generation, reducing server storage costs by 100%.

Tata Consultancy Services

Nov. 2020 – Jul 2024

Systems Engineer

- **Role and Responsibilities:**

- Designed and implemented RESTful APIs for a major north american railway company, ensuring smooth integration and functionality.
- Developed backend workflows using Node.js, optimizing performance and scalability.
- Worked with SQL and NoSQL databases, implementing data models with the backend using ORMs as well as raw SQL in some cases.
- Implemented security measures for data handling and user authentication, ensuring compliance with industry standards.
- Collaborated with cross-functional teams to troubleshoot application issues and implement solutions in a timely manner.

Freelance Backend Developer

Aug. 2019 – Nov 2020

- **Projects and roles:**

- Engineered an advanced invoicing system integrated with the RaiPay cryptocurrency chain, handling tasks such as verifying past balances, computing interest rates, dispatching reminders via Telegram, and generating QR codes for RaiPay transactions.
- Designed and implemented Telegram bots for automated loan reminders, utilizing Node.js and moment.js for precise timezone handling, improving task efficiency by 30% for city founders.
- Managed and optimized an Ubuntu Virtual Private Server (VPS) for a client over two years, including bolstering server security, implementing Docker for application containerization, orchestrating deployments, and overseeing firewall configurations.

CERTIFICATIONS, SKILLS & INTERESTS

- **Certifications:**

- Google cloud Certified: Associate Cloud Engineer
- Microsoft Certified: Azure Fundamentals

- **Skills**

- Programming Languages: GoLang, JavaScript (Node.js) and Python.
- Backend Development: FastAPI, Flask, goFiber, net/http (go), Node.js, Express.js, Next.js,
- Database Management: MySQL, PostgreSQL, MongoDB, Google firestore.
- Security: Understanding of security principles and best practices, including encryption, authentication, and authorization with JWTs.
- Tooling: git, shell scripting, AWS, GCP
- Problem-Solving: Strong analytical and problem-solving skills, with a focus on delivering efficient and effective solutions.
- Soft Skills: Excellent communication skills, both verbal and written, with the ability to collaborate effectively in a team environment.

- **Interests:** Blogging, Photo editing, Programming, Open-Source software

EDUCATION

Gujarat Technological University

May, 2020

B.E. Information Technology

- 7.98 CGPA