YASH TIWARI

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EXPERIENCE

CoderKube Technologies   Surat, India - Onsite
Backend Development Intern   *Nov 2024 – Apr 2025*

- **Built Scalable REST APIs**: Developed and maintained 15+ RESTful APIs using Node.js (Express) serving 10K+ daily requests, ensuring robust communication between frontend and backend with 99.8% uptime.
- **Database Integration & Optimization**: Integrated PostgreSQL and MongoDB; optimized query performance by 40% and reduced response times from 2.5s to 900ms for high-traffic endpoints handling 10K+ transactions daily.
- **Cloud Deployment**: Containerized 3+ backend services using Docker and deployed on AWS EC2, S3, reducing deployment time by 50% and achieving 99.9% availability for 10K+ monthly users.
- **Secure Authentication**: Implemented JWT and OAuth2-based authentication systems securing 15K+ user accounts with role-based authorization, reducing security incidents by 90%.
- **Blockchain SDK Integration**: Integrated TRON (TRX) blockchain SDK with Node.js backend, processing 100+ daily wallet transactions worth $10K+ in total volume with 99.9% success rate.
- **API Documentation**: Designed, tested, and documented 20+ APIs using Postman and Swagger (OpenAPI), reducing onboarding time by 50% and improving team collaboration across 3 development teams.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Go (Basic), SQL
Backend: Node.js (Express.js), FastAPI, Go(Gin)
Cloud & Databases: AWS, PostgreSQL, MongoDB, Firebase
DevOps & Infrastructure: Docker, Redis, Kubernetes, Nginx
Tools: Postman, Swagger, VS Code, Git, GitHub, Linux
Methodologies & Practices: Agile, CI/CD, OOP, RESTful APIs, Microservices, Test-Driven Development

PROJECTS

- **Dynamic Video Encoder API**   Source Code:
  - Developed a backend system for dynamic video encoding based on user internet speed.
  - Implemented adaptive bitrate streaming with FFmpeg for optimal quality and performance.
  - Designed an efficient queue-based pipeline for file uploads, processing, and delivery.
  - **Tech Stack:** Node.js, Express.js, FFmpeg, AWS S3, PostgreSQL, Redis, Docker.

- **TextAssist**   Live link:
  - Developed text-assistance backend handling 1000+ daily requests with 95% grammar and content accuracy.
  - Built 10+ REST APIs for text processing recommendations, cutting review time by 60% with AI-driven suggestions.
  - Deployed round-robin load balancing across 5+ API keys to bypass rate limits, achieving 99.2% uptime and ¡500ms latency.
  - **Tech Stack:** Node.js, Express, MongoDB, Gemini API, Load Balancing, Cloud, Error Recovery.

- **Secure Role Based Access Control API with Authentication**   Source Code:
  - Developed a secure API with JWT-based authentication and role-based access control (RBAC).
  - Encrypted sensitive password with bcrypt and stored in Serverless postgreSQL (NEON DB)
  - Implemented HTTPS, Helmet.js, and rate-limiting to prevent common web vulnerabilities.
  - **Tech Stack:** TypeScript, Bun.js, Express.js, Prisma ORM, Serverless PostgreSQL (NEON DB),t JWT, Bcrypt.

EDUCATION

- **Shree Ramkrishna Institute of Computer Education and Applied Sciences**   Surat, India
  Bachelors of Science - Computer Science; GPA: 9.4   *july 2022 - july 2025*
  Courses: *Operating Systems, Computer Networks , Data Structures, Analysis Of Algorithms, Artificial Intelligence, Databases*

ACHIEVEMENTS & VOLUNTEERING

- **Winner – NASA Space Apps Challenge, Surat**   NASA Space Apps:
  - Awarded "Best Use of Science" for innovative project. Led documentation and contributed to backend development and asset management.

- **Hackathon Highlights**:   Mahakumbh | ODOO x SVNIT
  - Finalist at IIIT-A Mahakumbh Hackathon among 100+ teams.
  - Top 50 in Odoo x SVNIT hackathon among 120+ teams and got a chance to participate in a 24hr offline hacakthon.

- **Git & GitHub Bootcamp Organizer – College Event**   Workshop - SRKI:
  - Conducted a 3-day workshop for 150+ juniors on version control systems - Git and Github . Appreciated by HOD for initiative and delivery.