Hemanth R

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Education

Don Bosco Institute of Technology, Bengaluru	**2022–2026**
Bachelor of Engineering in Information Science	8.7/10 CGPA
Bunt's Sangha RNS Vidyanikethana, Bengaluru	**2022**
Higher Secondary (Class XI, XII)	87%

Experience

Samsung Innovation Campus, Bengaluru	**Jan 2024–June 2024**

Coding and Programming Intern trainee

- Gained hands-on experience in Python, programming fundamentals, SQL, and data visualization.

- Collaborated with team members to implement real-world projects, applying learned concepts.

- Engaged in Pair Programming sessions, enhancing problem-solving approaches and collaboration skills.

Projects

TapNGo | Next.js, TypeScript, Tailwind CSS, Express.js, PostgreSQL + Prisma, Turborepo   **Source Code** | Live
- Developed a full-stack digital payment platform for wallet management, P2P transfers, and bank deposits.
- Ensured seamless and secure money transfers between users for robust security.
- Built the Vision Vault feature for setting savings goals, with interactive visualizations for P2P transfers and bank deposits.
- Designed and deployed a bank server on AWS EC2, utilizing Docker containers for scalability.
- Implemented a CI/CD pipeline for continuous integration and delivery of updates.

TaskForge | Next.js, TypeScript, Tailwind CSS, Kafka, Express.js, PostgreSQL + Prisma   **Source Code** | Live
- Developed a bounty automation platform that integrates GitHub webhooks for seamless reward distribution.
- Designed a scalable event-driven architecture using Kafka, reducing processing time.
- Enabled users to submit detailed bounty information, including reward amount and recipient address.
- Designed a dynamic webhook system that generates unique URLs for seamless GitHub integration. On PR closure, it processes bounties, validates credentials, executes transactions, and sends automated notifications.
- Deployed backend services on AWS EC2 using Docker containers within a Microservices Architecture, ensuring high availability and scalability.

MindCraft | React, Cloudflare Workers, TypeScript, Tailwind CSS, PostgreSQL + Prisma   **Source Code** | Live
- Developed a full-stack blogging platform that enables users to create, discover, and engage with content seamlessly.
- Designed an intuitive and distraction-free writing interface to enhance the content creation experience.
- Optimized performance and minimized latency by deploying the platform on Cloudflare Workers.

Technical Skills

Programming Languages: Python, Java, JavaScript, TypeScript, Basics of C
Backend Development: Node.js, Express.js, RESTful API's, Kafka
Frontend Development: Next.js, React.js, Tailwind CSS
Databases & ORMs: PostgreSQL, MongoDB, Prisma
Computer Fundamentals: Data Structures and Algorithms, Object-Oriented Programming
DevOps: CI/CD, Docker, Basics of Linux, AWS (EC2, S3, CloudFront, ASGs)
Tools: Git, GitHub, GitHub Actions, Postman

Achievements

Runner Up of **Pykathon 2024** held at Don Bosco Institute of Technology.

Selected as one of the top 35 students by Samsung Innovation Campus at Don Bosco Institute of Technology for their training program.