

Nitheshwaran T

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OBJECTIVE

Experienced Software Developer with **2+ years of expertise** in Python, Node.js, and Java, adept at crafting scalable, high-performance systems. Proficient in SQL (PostgreSQL) and NoSQL (MongoDB) databases, with a proven track record of **developing efficient code** and seamless cross-system collaboration. **Eager to contribute** to innovative projects, leveraging a passion for cutting-edge software solutions.

PROFESSIONAL SUMMARY

- **Experience:** 2+ years of experience as a **Backend Developer** specializing in **Node.js, Python, PostgreSQL, MongoDB** with a focus on delivering high-performance, scalable, and error-free **RESTful APIs**. Expertise in optimizing API response times, targeting millisecond precision, and ensuring 99.99 uptime through rigorous error-handling and preloading techniques. Passionate about building efficient, maintainable backend architectures with strong knowledge in both **NoSQL (MongoDB)** and **SQL (PostgreSQL)** databases.
- **Bharat Bill Payment:** Collaborated on Bharat Bill Payment System (BBPS) integration with a strong focus on secure, high-performance code architecture. Trained to justify every line of code, with mandatory logging and external code audits ensuring complete traceability. Experienced in adhering to security compliance by submitting necessary certifications for code approval.
- **Payment Gateway:** Integrated Tyche Payment Gateway with real-time checkout, payment links, and split payment processing for high-volume merchant transactions. Contributed to successful production deployment and end-to-end transaction tracking with focus on performance and data integrity. Managed merchant onboarding workflows, handling KYC validations and sensitive document processing (GST, Aadhaar) in compliance with regulatory standards.

WORK EXPERIENCE

Wowelse Branding Studio — Software Developer Coimbatore — July 2024 - Current

Worked extensively on a **banking application** using **Python** in collaboration with **Bharat Bill Payment System (BBPS)** and **Tyche Payment**. Developed scalable code to efficiently handle operations **across three identical servers**. Built highly available systems and ensured robust **server-side communication**. Gained experience in **architecture planning, system integration, and performance optimization**.

[click here.](#)

Quantanics Techserv Pvt Ltd — Full-Stack Developer Madurai — March 2023 - April 2024

Developed a real-time data monitoring system by subscribing to machine-generated data streams and continuously storing updates in the database. Built a live-updating dashboard using socket-based communication to push data without relying on API polling. Strengthened expertise in event-driven architecture, real-time communication, and backend performance optimization.

[click here.](#)

Technical Staff Member Mar 2023 - Mar 2024

Led **full-stack development** guidance at multiple engineering colleges. Conducted **Java** and **Python** training and facilitated problem-solving workshops.

[click here.](#)

PROJECTS

Easy Bill Pay

[Reference](#) 

Collaborated with **Bharat Bill Payment System (BBPS)** and **Tyche Payment** technical teams to integrate secure payment solutions into a custom banking application.

Technologies Used: Python, AWS Cognito Auth, S3

Performance Improvements: Reduced API response time significantly by optimizing database queries and implementing multi-threading techniques for asynchronous processing. Applied SOLID principles to improve code maintainability, scalability, and consistently maintaining a 99.99 percent successful response rate.

Terion - Billing Software

Designed a project integrating **automatic email alerts** with live **Razor Pay QR codes**, personalized profiles, and **invoice previews**, ensuring smooth sales operations.

Technologies Used: ReactJS, Expressjs, Postgress, Razorpay API

Performance Highlights: Applied modular design and SOLID principles to improve maintainability; Implemented asynchronous email handling to reduce billing delays.

TempoIot - Real Time Monitoring

[Link](#) 

Built real-time graphical data applications for hardware machines using ReactJS, NodeJS, MongoDB, and PostgreSQL (via PG Admin). Designed interactive dashboards to visualize machine data streams with efficient front-to-backend integration.

Technologies Used: ReactJS, Node.js, MongoDB, Chart.js, WebSockets

Flatmates - Simplified Living

Created a project named 'Flatmates' which features options for **chat communication** and **room sharing** with others.

Technologies Used: Codeigniter 4 , Mysql

SKILLS

Programming Languages: **Python, JavaScript, Java**

Libraries/Frameworks: **Flask, Express**

Databases: **MySQL, PostgreSQL, MongoDB**

Tools / Platforms: **Git, GitHub**

Other: **RESTful APIs, System Architecture, Scalability, Performance Optimization, System Integration**

CERTIFICATIONS

Skills and Job Recommender **IBM**

JAVA **Sololearn**

SQL **Hackerrank**

TCSiON NQT **TCS**

EDUCATION

2019 - 2023 BE/Computer Science at **Anna University Regional Campus** (GPA: 7.96/10)

2017 - 2019 HSC at **Sri Vidya Mandir matric Hr. Sec. School** (Percent: 79)

2016 - 2017 SSLC at **St.Lucy's Matric Hr. Sec. School** (Percent: 94)