**B V Nagi Reddy**

*Software Developer/ Software Engineer*

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Software Development Engineer with expertise in Python and Java, specializing in backend development, API engineering, and problem-solving. Passionate about innovations in software architecture, designing high-performance RESTful and GraphQL APIs, and optimizing database queries. Experienced in implementing secure authentication solutions and building complex systems using Data Structures and Algorithms. Skilled in Docker, CI/CD pipelines, Android Development, Software Products, Automated Testing, and Web Standards, ensuring scalable, high-concurrency architectures while delivering robust services that align with best software development practices.

**EXPERIENCE**

**Nellsys Technologies PVT LTD.** *(50+ employee product-based startup) Hyderabad, Telangana*

*Junior Software Developer**March 2024 – Current*

*Pravasy Admin Application (Paas) August 2024 – Current*

* Architected and developed scalable Laravel-based full-stack applications, leveraging MVC architecture, SOLID principles, and OOP to ensure maintainability, high performance, and timely project delivery.
* Engineered core system modules, integrating real-time metrics and a Payment Model (Pay-By-UPI, Bank, Cash), optimizing transactional workflows and improving efficiency by 40% for 25+ users while enhancing query performance by 40%.
* Committed overtime to design and optimize RESTful APIs, implementing Java-based asynchronous processing for push notifications and invoicing, resulting in 100% faster execution and system reliability.
* Led system deployment and infrastructure optimization, achieving a 90% deployment success rate, enhancing backend architecture, and ensuring scalability and fault tolerance.
* Drove technical excellence, mentoring other developers, enforcing secure coding practices, and fostering collaborative system design for high-availability applications.
* Balanced multiple projects efficiently through strong organizational skills, delivering critical application updates within tight deadlines, reducing downtime by 45%, and maintaining a seamless user experience.
* Implemented React-based notifications, sending Toasts for application errors from an error array, ensuring real-time feedback and enhanced UX.

*Generative AI PDF Summarization Tool – Scalable NLP Solution**March 2024 – June 2024*

* Developed an NLP & Deep Learning-based PDF summarization tool, reducing processing time by 50% and improving accuracy by 35%.
* Supervised custom LSTM model development, enhancing Neural Network efficiency for improved text summarization.
* Built a Django-based MVT architecture, leveraging FastAPI microservices for high-performance asynchronous processing of PDF uploads and summaries.
* Integrated PostgreSQL with Django ORM, improving query performance, data retrieval speed, and ensuring database integrity.
* Applied OOP principles for a scalable, maintainable, and modular NLP-based system, enhancing system reliability.

**EDUCATION**

**Saveetha School of Engineering**  *Chennai, Tamilnadu*

*Bachler’s Engineering (Computer science and engineering) August 2019 – June 2023*

* Award for Academic Excellence (Top 200 Students, 2022)
* Final Year Project Recognized in Top 2%

**PERSONAL PROJECTS**

**Spring Boot API (Java, Redis, Hibernate)** *December 2025 – Current*

* Architected scalable backend systems using Spring Boot, implementing Spring Core (DI, Bean Lifecycle) and AOP for modular and maintainable application design.
* Optimized query performance by integrating Redis caching and Hibernate ORM, reducing database response times to under 2 seconds.
* Enhanced security with Spring Security, JWT-based authentication, and role-based access control (RBAC) for secure API interactions.
* Implemented proactive monitoring with Spring Actuator, enabling real-time health checks, metrics collection, and performance monitoring.
* Automated deployment & troubleshooting using PowerShell scripting, ensuring seamless rollouts and reduced time.

**Node.js Web Application (Node.js, Typescript, GraphQL, Docker)** *August 2024 – November 2024*

* *Designed a modular and scalable backend using Node.js MVC architecture, ensuring structured separation of concerns and attention to detail.*
* *Developed high-performance APIs using GraphQL & REST, optimizing data retrieval and reducing frontend-backend communication latency.*
* *Enabled cross-platform deployment in cloud platform by containerizing the application with Docker, ensuring scalability and environment consistency.*
* *Enhanced system efficiency using multithreading (worker threads) and event-driven asynchronous programming, improving concurrency for high-load processing.*
* *Optimized I/O operations by leveraging Streams, Buffers, and File System operations, reducing memory usage and improving data transfer speeds.*
* *Optimized database design architecture using normalization, views, and indexing, ensuring data integrity, reducing redundancy, and improving sql query execution speed by 40%.*

**Social Context API (FastAPI, JWT, PostgreSQL, Swagger)** *March 2025 – March 2025*

* *Developed a secure and scalable API using FastAPI, implementing JWT authentication and RBAC to restrict access to endpoints based on user roles.*
* *Designed and implemented CRUD operations for Users, Roles, and Posts, ensuring seamless role-based access management and efficient database interactions.*
* *Optimized API documentation using Swagger UI, providing a structured and interactive interface for testing and validating API endpoints.*
* *Improved system security and efficiency by implementing token-based authorization, structured data validation, and database indexing for enhanced query performance.*

**CERTIFICATION**

* AZ-305: Designing Microsoft Azure Infrastructure Solutions **– Microsoft**
* AZ-900: Microsoft Azure Fundamentals **– Microsoft**
* Data Analyst **– Tranity**

**ADDITIONAL**

**Programming Languages:** Python, Java, PHP, JavaScript, Typescript HTML, CSS

**Database Management:** MySQL (RDBMS), PostgreSQL, Redis , NoSQL (MongoDB)

**API Development:** RESTful & GraphQL API design, JWT authentication, OAuth, RBAC

Version Control: Git, GitHub, GitLab

**Software Design Principles:** Object-Oriented Programming (OOP), SOLID, Design Patterns

**Architectural Patterns:** MVC (Laravel, Spring Boot), MVT (Django, Flask), Microservices

**Frameworks: Laravel,** Django, Flask, Spring Boot, Node.js (Express.Js), FastAPI

**Cloud & DevOps:** AWS, Azure, Docker, Kubernetes, CI/CD Pipelines

**Operating System:** Linux, Ubuntu, Window

**Software Development:** Full Software Development Life Cycle (SDLC), Agile Development Methodologies, Test Automation, Code Reviews, Debugging