

Harsh Suvarna | Software Engineer

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Profile

Software Engineer with expertise in Full Stack App Development, with a hunger to learn more

Technical Skills

- **Languages & Frameworks:** TypeScript, Node.js, ReactJS, HTML, CSS, Nest.js, Express.js, JWT, OAuth
- **DevOps & CI/CD:** AWS (EC2, ECS, Lambda, Cognito, S3, SQS), GCP, Docker, Terraform, GitHub
- **Databases:** PostgreSQL, MySQL, MongoDB, Redis, DynamoDB
- **Other Skills:** Code Review, Problem Solving, Team Collaboration, Microservices Architecture, Event-driven Architecture, CI/CD Pipelines, Continuous Integration/Delivery

Experience

Software Engineer | [Code B Solutions](#) | August 2023 – July 2024 | Mumbai, India

- Developed and implemented modular, and maintainable Full Stack SaaS applications, using Typescript and Node.js, handling 1000+ user requests daily, with strong focus on efficiency and code optimization.
- Developed and maintained production software systems using cloud AWS, GCP and microservices architecture, optimising API integrations and event-driven systems for efficient data processing and retrieval.
- Applied database design principles to create robust solutions for data storage and retrieval, ensuring efficient access patterns for complex data requirements using PostgreSQL
- Implemented and maintained CI/CD pipelines using GitHub Actions and Docker, automating deployment and testing processes, which resulted in a 40% reduction in release cycle times and increased overall system reliability.

Tech- TypeScript, HTML, CSS, AWS, GCP, React, Nest.js, Docker, Terraform

Backend Developer | [D'Vastra Fashion](#) | Feb 2022 – Aug 2022 | Mumbai, India

- Led RESTful API development using Node.js and microservices architecture, achieving a 75% reduction in API response time and significantly improving customer experience by optimising event-driven data processing.
- Ideated and implemented a bulk data upload feature, allowing seamless data ingestion from spreadsheets, which improved data handling and led to a 30% increase in customer satisfaction.
- Implemented testing frameworks and monitoring tools to ensure the reliability of code in production, proactively debugging applications and addressing system inefficiencies to enhance performance.

Tech - Python, Node.js, FastAPI, RESTful API, MySQL, GCP, SQL

Analyst | [Ernst & Young](#) | Jul 2021 – Jan 2022 | Mumbai, India

- Automated audit process using EY Digicube Fintech, Python and PostgreSQL bringing the audit time down >50%.
- Optimised SQL queries by crafting complex logic, reducing transaction data retrieval time significantly.

Tech - Python, EY Digicube FinTech, PostgreSQL, Advance Excel

Awards and Certifications

- Earned the EY "I am Exceptional" award for displaying outstanding and innovative intellectual contributions
- Data Science Certification – 2021, Distinction

Projects

Cybersafe – Attack Tree Tool – [Link](#)

- A tool which helps Developers to create, manage and visualise Cybersecurity threats to their systems effectively, using Attack Trees.
- Implemented cookie-based authentication to enhance security, mitigating the risk of DDoS attacks and ensuring robust protection of user data and transactions.
- Collaborated closely with software developers to iteratively enhance tool functionality based on continuous feedback, ensuring a more intuitive and efficient end-user experience.
- Received an **A grade** in the MSc course at the University of Glasgow.

Tech - HTML, CSS, TypeScript, Responsive design principles, Nest.js, ReactJS, GCP, Firebase.

Butik -Virtual Stores– [Demo](#)

- Butik is full-stack web application which uses React, Python Fast API, AWS and MySQL to allow users to discover and browse local stores' products.
- Developed custom OTP-based login for enhanced security compared to password-only authentication.
- Seamlessly communicates with MySQL database with efficient SQL queries, to perform CRUD operations on User, Product, Product Variants and Store data.

Tech - React, Node, Express, PostgreSQL, FastAPI, GCP

Education

M.Sc. Information Technology | 2022 - 2023 | University of Glasgow, UK

Advance Programming, Software Engineering, Internet Technology, Web Science | [Grade – 2:1](#)

B. Tech Instrumentation | 2017 - 2021 | University of Mumbai, India

Data Structures, Algorithms, Object-Oriented Programming | [GPA – 8.8 /10 \(1st\)](#)