

SHUBHAM NARKHEDA



"I build scalable systems in automated workflows."

SUMMARY

Software Engineer with 6+ years of experience delivering complex, high-availability, and high-performance applications for global organizations such as Bosch and Amazon. Specialized in Backend Development (Java, Spring Boot, Node.js) and DevOps Automation (Azure, AWS, CI/CD), with a strong track record of architecting robust RESTful APIs, optimizing database performance (SQL/NoSQL), and implementing complex business logic. Proven collaborator working closely with product owners, solution architects, and stakeholders in Agile/DevOps environments to bridge the gap between frontend requirements and backend architecture.

CONTACT DETAILS

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EXPERTISE

- Full Stack Development
- Backend Architecture
- Database Design & Integration
- DevOps Tools & CI/CD
- Automated Testing & Quality

EXPERIENCE

Software Developer in DevOps 07/2022 – Present
Robert Bosch GmbH Stuttgart-Feuerbach, Germany

- Architected and maintained robust backend services and RESTful APIs for sales and engineering platforms, ensuring seamless data flow between frontend and internal/external systems.
- Delivered full-stack features with a focus on backend scalability, implementing complex business logic and processes to support high-usage digital solutions.
- Optimized backend performance and availability by integrating applications into CI/CD pipelines with automated quality gates and security checks.
- Implemented automated module, integration, and end-to-end (E2E) tests using Playwright, improving test pass rates to 95% and reducing production bugs by 20%.
- Collaborated closely with Product Owners (POs), Solution Architects, and stakeholders to deliver features end-to-end and reduce time-to-market from 12 weeks to 8 weeks (-35%).
- Mentored 20+ engineers on fullstack development practices, CI/CD workflows, and infrastructure-as-code (IaC) automation, improving delivery quality and team productivity.

Software Developer 09/2020 – 06/2022
Bosch Rexroth AG Ulm, Germany

- Developed and maintained data-driven backend platforms that improved transparency and increased sales efficiency by 16% for global partners.
- Migrated cloud infrastructure from legacy servers to Azure, enhancing scalability, security, and cost efficiency while establishing automated CI/CD pipelines on Azure DevOps.
- Designed and integrated REST and SOAP APIs to enable new sales and partner features, expanding application capabilities and supporting wider adoption by global partners.
- Optimized database queries and system architecture to support a video-conferencing integration used by 600+ partners, increasing remote sales meetings by 40%.
- Delivered responsive support and rapid bug fixes for critical business modules, minimizing downtime and ensuring continuity for global operations.
- **Achievements:**
 - Led technology upgrade initiatives that reduced server costs by 40% and significantly improved backend system reliability.
 - On-boarded 100+ global partners, cutting on-boarding time from 2 weeks to 3 days through automated API-driven workflows.
 - Built video-conferencing integration used by 600+ partners, increasing remote sales meetings by 40%.

Software Developer - Master Thesis 04/2020 – 08/2020
Bosch Rexroth AG Ulm, Germany

- Topic: Development of an Application Product Selector (APS) of Mobile Machinery for Sales Partners
- Engineered an ASP.NET Core backend with MVVM architecture for product selection, integrating complex business logic for mobile machinery.
- Created a centralized tool integrating SAP data, 3D assets, and competitor analysis to improve sales partners' product recommendation accuracy.
- Implemented Git branching workflows and peer code review practices to ensure high code quality and adherence to standards.
- Conducted iterative user testing and requirements analysis with management and sales teams.

- **Achievements:**
 - Automated configuration generation, reducing engineer effort by 4 hours per week.
 - Contributed to measurable market sales growth by simplifying application discovery and product recommendation for partners.
 - Enabled sales partners to navigate multiple applications, improving adoption and contributing to measurable market sales growth.

LANGUAGES

- English - Fluent
- German - Intermediate B1
- Hindi - Native
- Marathi - Mother tongue

SKILLS

- Backend Development:** Java (Spring Boot), Node.js (Express), Python, C (ASP.NET Core), RESTful APIs, SOAP, Microservices Architecture
- Database & Integration:** SQL (PostgreSQL, MySQL), NoSQL (MongoDB, Redis), Database Modeling, Query Optimization, SAP/ERP Integration
- DevOps & Cloud:** Azure DevOps, AWS, Docker, Kubernetes, CI/CD Pipelines, GitHub Actions, Jenkins, Infrastructure as Code (IaC)
- Testing & Quality:** Unit Testing, Integration Testing, Playwright (E2E), Code Reviews, Coding Standards, Security Best Practices (OWASP)
- Tooling & Build Systems:** Git (Version Control), npm, Maven, Gradle, Jira, Confluence, Grafana

CERTIFICATIONS

- Introduction to Project Management
- AWS Fundamentals Specialization
- AWS: Building Serverless Application
- Python for Data Science
- Introduction to Data Science
- For More: <https://tinyurl.com/1000cert>

PERSONAL PASSIONS

- AI Tools Exploration
- Books Reading & Reviews Writing
- UX/UI Designing & Prototyping
- Online Learning & Certifications
- Knowledge Summarization

LIFE BEYOND WORK

- Team Events Organizing
- Art (Sketching & Painting)
- Fitness (Workout, Yoga)

Software Developer - Associate

Amazon

04/2019 – 03/2020

Leipzig, Germany

- Developed scalable internal tools and backend services using Java, Spring Boot, Kotlin, and TypeScript, optimizing business processes and reducing manual efforts by 30%.
- Engineered reliable, testable code and actively led code reviews, enhancing application stability, maintainability, and team delivery standards.
- Gained expertise in Amazon-scale technologies while improving internal workflows and delivering high-performance software solutions.

Achievements:

- Built backend tools to improve scalability by 40%, enhance stability, and boost performance by 30%.
- Developed and maintained high-quality code that reduced bug incidents by 20% through GitOps and CI/CD practices.
- Contributed to 10+ Agile development cycles, accelerating delivery by 25% and improving system performance by 15%.

EDUCATION

M.Sc. Automotive Software Engineer

10/2018 - 08/2020

Technical University of Chemnitz

Chemnitz, Germany

Grade: 1.7/5.0

B.E. Computer Science and Engineering

06/2014 - 05/2018

R.T.M.N.U Nagpur University

Nagpur, India

Grade: 8.4/10 ≈ German: 1.75/5.0

INTERNSHIPS

Web Design & Development Trainer

04/2018 – 09/2018

Arena Animation

Nagpur, India

- Delivered comprehensive training on modern web technologies, including HTML5, CSS3, Bootstrap, JavaScript, PHP, WordPress, and Firebase.
- Conducted in-depth modules on UI/UX principles, prototyping, and responsive design, enabling students to build intuitive and user-focused web interfaces.
- Mentored over 30 students in developing real-world web projects, improving their design thinking and problem-solving skills.
- Managed academic transition and visa process for relocation from India to Germany for master's studies.

Full-Stack Developer (Part-time)

07/2017 – 02/2018

IT-Networkz Infosystems Pvt. Ltd.

Nagpur, India

- Built and launched "Food on Phone System," an online food ordering portal, leading to a 40% boost in initial user engagement.
- Utilized full-stack technologies (Java, JDBC, MySQL, HTML5, JavaScript, Bootstrap) to deliver full-stack solutions within aggressive project timelines.

Java Developer Intern

09/2016 – 03/2017

Paarsh Touch Software Solutions

Nagpur, India

- Engineered server-side applications with Servlets, JDBC, and Tomcat, supporting secure data processing for 3 client contracts.
- Managed hosting and real-time database integration using Firebase, enabling client-side analytics and reducing downtime incidents.

Web Developer & UI/UX Intern

02/2016 – 08/2016

Paarsh Touch Software Solutions

Nagpur, India

- Designed and developed responsive websites and web applications using HTML5, CSS3, Bootstrap, and JavaScript, improving mobile accessibility by 50%.
- Delivered UI/UX enhancements guided by user feedback, increasing client satisfaction ratings by 25%.
- Customized WordPress and PHP5 implementations for rapid website launches, supporting client brands.