ANUDEEP UPPU
SOFTWARE ENGINEER

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SUMMARY

- **Software Engineer with 3+ years of full-time** professional experience in developing scalable, reliable applications, specializing in full-stack development, cloud computing, and system optimization.
- Proficient in frameworks such as Spring Boot, React, Node.js, TypeScript, Python, Java, and AWS, with expertise in building secure, performance-oriented systems.
- Experienced in **Bosch Global Software Technologies**, where I improved system performance and automated complex workflows, delivering solutions that enhanced operational efficiency by 30%.
- Extensive experience in **J2EE technologies like JDBC, JSP, Servlets, Spring Boot, and Hibernate** for efficient and scalable solutions.
- Skilled in designing and optimizing REST APIs, integrating GraphQL, and working with modern CI/CD tools to automate and streamline development workflows.
- Led initiatives to improve web performance by 30%, cut deployment times by 35%, and enhance user engagement by 25%.
- Expertise in database management (MySQL, PostgreSQL, MongoDB) and cloud platforms (AWS, Docker, Kubernetes), ensuring optimal performance and scalability.
- Strong collaborator, mentoring junior engineers and leading development teams to deliver high-impact solutions on time.
- Passionate about improving user experience, reducing operational overhead, and applying AI techniques for problem-solving.

PROFESSIONAL EXPERIENCE (FULL TIME)

Northern Arizona University — **Flagstaff, AZ**
Software Engineer — **June 2024 - Present**

- **Designed and developed a real-time notification system for campus events**, increasing user interaction by 40% through improved alert accuracy and delivery speed.
- Developed a web-based inventory management app using **Node.js, ReactJS, and TypeScript**, improving operational efficiency and reducing inventory errors by 30%.
- **Optimized large-scale genomic data** processing by implementing Python-based algorithms, reducing query time by 20% for large datasets in PostgreSQL.
- Created secure API endpoints for a student portal, **incorporating OAuth 2.0 authentication**, reducing unauthorized access attempts by 50%.
- Automated deployment workflows **using Jenkins and Docker,** improving release cycle speed by 35% and minimizing production downtime.
- **Led the integration of GraphQL in the university's academic portal**, enhancing data query efficiency and boosting student engagement by 25%.

BOSCH Global Software Technologies — **Bangalore, India**
Software Engineer — **July 2019 - June 2022**

- **Led the development of Bosch IoT Gateway** – a microservices-based application for Bosch's IoT platform using Java, Spring Boot, and Docker, improving system scalability and reducing downtime by 25%.
- **Developed and deployed RESTful APIs** for Bosch's **SmartHome Integration Suite**, enabling seamless integration between internal devices and third-party systems, resulting in a 40% improvement in data flow efficiency.
- **Collaborated in Agile sprints** for the **Bosch CloudConnect Platform**, participating in 2-week cycles with cross-functional teams, using JIRA for task tracking, and ensuring timely delivery of new features and bug fixes.
- **Built CI/CD pipelines using Jenkins** for **Bosch Fleet Management System**, automating build, test, and deployment processes, reducing manual deployment errors by 30% and accelerating release cycles.
- **Designed and optimized backend services** for **Bosch Connect** (real-time IoT device monitoring), enhancing data retrieval speed by 35% and improving system reliability through Java and PostgreSQL integration.
- **Conducted code reviews** using Git/GitHub on the **Bosch VisionAI** project, ensuring high-quality code standards and reducing bug count by 20%, improving overall maintainability and developer efficiency.
- **Implemented unit testing** with JUnit and Mockito for **Bosch Fleet Management System**, achieving 90% test coverage and ensuring the robustness of key features in the application.

- **Developed the Bosch Insight Dashboard** using React.js and Node.js, enabling real-time visualization of IoT device metrics, reducing troubleshooting time by 50% and improving decision-making across the organization.
- **Optimized performance of Bosch Fleet Management System**, identifying bottlenecks in service communication and improving response times by 40% through efficient Java-based solutions.
- **Collaborated with the DevOps team** to configure Docker containers for **Bosch SmartHome Integration**, deploying services in a cloud environment (AWS), improving deployment speed and resource utilization by 30%.
- **Refactored legacy codebase** in **Bosch Predictive Analytics** using Java and Python, improving system maintainability and reducing technical debt, which led to a 25% increase in code stability.
- **Mentored junior developers** on best practices for coding, software design patterns, and Agile processes within the **Bosch Predictive Analytics** team, resulting in a 15% increase in team productivity.
- **Contributed to daily stand-ups, sprint planning, and retrospectives** in an Agile environment, supporting the continuous improvement process and timely delivery of software for Bosch IoT solutions.

SKILLS

- **Programming & Scripting Languages**: Java, C, C++, Python, TypeScript, JavaScript, SQL, NoSQL, ABAP, PHP
- **Web Development**: ReactJS, Node.js, Express.js, Spring Boot, Angular, GraphQL, REST APIs, HTML, CSS
- **Databases**: MySQL, PostgreSQL, MongoDB, SAP HANA, MS-SQL
- **Cloud & DevOps**: AWS, Docker, Kubernetes, Jenkins, CI/CD, Terraform, AWS Lambda
- **Tools**: Git, GitHub, Postman, JIRA, Maven, IntelliJ, Webpack, Vagrant, Docker Compose
- **Operating Systems**: Windows, Linux, UNIX, macOS
- **Methodologies**: Agile (Scrum), TDD, CI/CD, Object-Oriented Programming (OOP), Design Patterns, Microservices
- **Soft Skills:** Problem Solving, Excellent Communication, Teamwork, Adaptability, Emotional Intelligence.

EDUCATION

Northern Arizona University **Flagstaff, AZ**
Master of Science in Computer Science ***(GPA: 3.9/4.0)*** **Aug 2022 – May 2024**

PROJECTS

- **NAUGIT – GitLab CI/CD Pipeline**: Created a GitLab-based assignment submission system for NAU's CS department, using Python, Vagrant, and GitLab APIs to automate grading and assignment tracking, saving 20 hours per semester.
- **AI-Driven Resume Analyzer**: Built an AI-powered resume screening tool using Python, Natural Language Processing (NLP), and TensorFlow, enhancing the recruitment process by automating candidate filtering, reducing review time by 40%.
- **Genomic Search Enhancer**: Designed a genomic data search tool using hash tables and dynamic programming algorithms, enhancing search speeds by 30% for large-scale datasets in bioinformatics research.
- **Personal Finance Tracker**: Created a full-stack personal finance tracker application using React.js, Node.js, and MySQL, enabling users to track spending and savings, improving budgeting efficiency for 500+ users.
- **Dependency Health Checker**: Built a tool using Python to analyze GitHub repositories for deprecated dependencies, reducing long-term maintenance costs by 25% and improving overall project health.
- **Task Automation Bot**: Built an automation bot using Python and Selenium to streamline manual web scraping tasks, reducing data collection time from 3 hours to under 30 minutes per project.
- **E-Learning Platform for Remote Education**: Developed a scalable e-learning platform using Django, PostgreSQL, and AWS, integrating video lessons, quizzes, and progress tracking, which increased course completion rates by 25%.
- **Cloud File Sharing App**: Created a cloud-based file synchronization and sharing app using Node.js, AWS, and MongoDB, enhancing file-sharing capabilities for users and cutting data retrieval times by 35%.
- **Custom CMS for Small Businesses**: Designed a content management system (CMS) using React.js, Node.js, and MySQL for small businesses, allowing owners to easily manage their website content, improving admin workflow by 40%.
- **Online Auction Platform**: Developed an online auction platform using JavaScript, Node.js, and PostgreSQL, enabling real-time bidding and user authentication via OAuth 2.0, enhancing auction participation by 25%.