Siri Bomma | Software Developer

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SUMMARY

Software Developer with nearly **5 years of experience** building applications in Java, Python, and .NET Core. Skilled in creating RESTful APIs, microservices, and cloud-based solutions using AWS and Azure. Strong background in SQL Server, PostgreSQL, and MongoDB, delivering optimized queries and faster performance. Experienced with CI/CD pipelines, Docker, and GitHub Actions, accelerating deployments and reducing release errors. Proficient in test automation, Agile delivery, and secure coding practices, ensuring scalable, reliable software that meets enterprise and regulatory standards.

TECHNICAL SKILLS

Programming Languages: Java (JDK 17+, Spring Boot), Python (3.11+, Django, Flask), C#/.NET Core (6/7), SQL, JavaScript (ES6+)
Web & API Development: RESTful APIs, GraphQL, ASP.NET MVC, Spring MVC, React.js, Angular, HTML5, CSS3, Bootstrap
Frameworks & Libraries: Spring Boot, Hibernate/JPA, .NET Core, Entity Framework, Django, Flask, Pandas, NumPy
Databases: MySQL, PostgreSQL, SQL Server, MongoDB, Redis, Oracle, AWS RDS
Cloud & DevOps: AWS (EC2, S3, Lambda), Azure, Docker, Kubernetes (basic), Jenkins, GitHub Actions, CI/CD pipelines, Terraform (basic)
Testing & QA: Unit Testing (JUnit, NUnit, PyTest), Selenium, Postman, Test Automation
Version Control & Collaboration: Git, GitHub, GitLab, Bitbucket, Agile/Scrum, Jira, Confluence
Data & Analytics: SQL Queries, JSON/XML processing, ETL basics, Pandas, Matplotlib, Seaborn
Security & Best Practices: OWASP Top 10, Secure Coding, Input Validation, Authentication/Authorization (OAuth2, JWT), Encryption
Soft Skills: Debugging, Algorithm Optimization, Team Collaboration, Communication

PROFESSIONAL EXPERIENCE

Tyler Technologies, TX, USA   **Jul 2024 - Current**
Software Developer

- Built Spring Boot and Django APIs, improving system response time 25% and enabling faster client transactions.
- Migrated legacy monolith into .NET Core 7 microservices, lowering error rates 18% and reducing maintenance costs.
- Systematized CI/CD with GitHub Actions, Docker, and AWS EC2, cutting deployment time from hours to minutes.
- Implemented OAuth2 and JWT authentication, eliminating unauthorized access attempts and improving production security posture across applications.
- Tuned PostgreSQL queries and added Redis caching, increasing throughput 30% during peak system workloads.
- Raised Agile sprint completion rate to 95% while mentoring three developers on coding practices and delivery.

Mindtree, India   **Jul 2020 - Aug 2022**
Software Developer

- Delivered Spring Boot, Django, and Flask microservices, ensuring 99.9% uptime for financial services client applications.
- Improved SQL Server and PostgreSQL performance by 20% through optimized stored procedures for high-volume transactions.
- Mechanized reporting using Pandas and NumPy, saving twelve business hours monthly across multiple client projects.
- Increased test coverage from 55% to 90% using JUnit, PyTest, Selenium, reducing defects 35%.
- Deployed services on AWS RDS and Azure App Services, ensuring system scalability and disaster recovery readiness.
- Coordinated with QA and DevOps teams, shortening release cycles 15% by removing integration bottlenecks.

Cognizant, India   **Mar 2019 - Jun 2020**
.Net Developer

- Built ASP.NET MVC and .NET Core applications, improving insurance portal responsiveness by 28%.
- Developed REST APIs handling JSON/XML, reducing third-party transaction errors by 22% across systems.
- Enhanced SQL Server query performance 17% through Entity Framework Core-based optimizations and indexing improvements.
- Authored NUnit unit tests with 85% coverage, lowering production defects 40% and ensuring stable releases.
- Contributed to Agile planning, standups, and retrospectives, raising sprint velocity 12% across distributed development teams.
- Reduced downtime from five monthly incidents to fewer than two using CI-based incremental deployments.

EDUCATION & CERTIFICATIONS

Master of Science in Information Science   **May 2024**
University of North Texas, Denton, TX, USA

Certified Software Engineer - HackerRank | Certified Java Developer - IBM

PROJECTS

Live Logistics Platform | Spring Boot, WebSockets, PostgreSQL, Google Maps API, React.js

- Built a real-time logistics tracking system with dashboards for customers, couriers, and admins, improving delivery visibility and reducing support calls 20%.
- Implemented WebSockets for live updates and PostgreSQL for data persistence, ensuring high availability and consistent performance under peak traffic.

Crop Track-Live | Spring Boot, MQTT, Timescale DB, Machine Learning, AWS

- Designed IoT-enabled agriculture solution with AI-driven irrigation, reducing water consumption 30% and improving crop efficiency.
- Integrated MQTT messaging with AWS cloud infrastructure and Timescale DB for scalable sensor data processing and storage.

Swift Parcel Manager | Java, Spring Boot, REST APIs, MySQL, AWS

- Developed parcel management platform with computerized routing and third-party API integrations, streamlining shipment operations by 25%.
- Deployed REST APIs on AWS with MySQL backend, enhancing system scalability and supporting high transaction volumes.