James Anderson

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Seattle, WA

Certifications

- AWS Certified Cloud Practitioner - 2025
- ITIL 4 Foundation - IT Service Management - 2025
- Google IT Support Professional - 2024

Skills & Technologies

Languages: Java, **Python**, Bash, C/C++, CSS, HTML5, JavaScript, SQL
Frameworks & Libraries: **Spring Boot**, **React**, React Native, Angular, Express.js, Jest, JUnit, NodeJS, Pytest
Version Control & Tools: Git, AWS, CI/CD, Docker, Jenkins, Jira, Kubernetes, npm, Postman, Webpack
Concepts & Methods: Agile, Cloud Computing, Data Structures, Algorithms, Object-Oriented Programming, Scrum, System Design
Databases: MongoDB, MySQL, PostgreSQL, Redis
Testing & Quality: Automated Testing, Debugging, Quality Assurance, Unit/Integration/E2E/Automated/Performance Testing, Test-Driven Development
Web Development: API Design, GraphQL, Microservices, Responsive Design, WebSockets, User Authentication

Work Experience

Freelance Software Engineer   *Dec 2024 – Present*

- Built and launched custom **full-stack applications** and **APIs** for clients, using tools like **Spring Boot**, **React**, and **PostgreSQL**.
- Created strong solutions by applying **object-oriented programming** and **Agile methods** for smooth project delivery and teamwork.
- Ran comprehensive **testing** (unit, integration, and user acceptance) and used **Git** to manage code, making sure projects were high-quality and easy to maintain.
- Handled client projects from figuring out initial needs to final launch and support, focusing on clear communication and delivering scalable, user-focused products.

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Projects

XP List App - July 2025

- Developed a **mobile app** that helps users manage tasks, track progress, and level up with an XP system.
- Designed and added a custom leveling system, giving XP for tasks completed and updating user profiles as they progressed.
- ***Challenge:*** Solved the tough problem of keeping user data and features working consistently when switching between online and offline, which needed solid data syncing and error handling for network issues.
- ***Action & Result:*** Set up user login and cloud data storage with **Appwrite** for live task management, supporting offline use via **AsyncStorage** and making sure data stayed consistent with custom sync logic. This led to a reliable, smooth user experience.

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Serverless IoT Data Analytics Platform - June 2025

- Designed a highly flexible, event-driven **serverless platform** using **Java** for real-time monitoring and analysis of huge amounts of IoT sensor data, handling millions of data points every second.
- Created the main data processing logic inside **Lambda functions** using the **AWS SDK**, performing data changes, grouping, and finding unusual patterns. Used asynchronous methods with **Amazon SQS** for reliable messaging and strong error handling through **Dead-Letter Queues**.
- ***Challenge:*** Tackled the critical need for a high-speed, fault-tolerant data pipeline to process millions of IoT data points per second while keeping access fast for real-time analytics.
- ***Action & Result:*** Designed a pipeline using **AWS API Gateway** for secure data capture, **AWS Lambda** for initial processing, **AWS Kinesis Data Firehose** to move data to an **Amazon S3** data lake, and **Amazon DynamoDB** for quick access. This resulted in a very scalable and powerful analytics platform.

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Education

Western Governors University   *Bachelor of Science — Software Engineering*

- Applied knowledge in data structures, algorithms, and object-oriented programming to build scalable software solutions.
- Gained hands-on experience with full-stack development, cloud computing principles, and modern software development methodologies.