

Aron Ukbay Bariagabr

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Professional Summary:

Full Stack Java Developer with 4+ years of progressive experience engineering robust, scalable, and high-performance enterprise applications within healthcare and technology ecosystems. Proficient in **Java, Python, C++, Spring Boot, Hibernate, React.js, Angular, and Microservices**, with deep expertise in API development, system integration, and cloud-native architectures (AWS, Azure). Skilled in **automation scripting, performance optimization, and cross-language integration** to enhance application reliability and speed. Demonstrated success in optimizing application performance, streamlining CI/CD workflows using Jenkins, Docker, and Git, and driving full lifecycle development in Agile/Scrum environments. Recognized for architecting secure, maintainable solutions, enhancing user experience, and delivering business-critical innovations with precision and technical excellence.

Technical Skills:

Programming Languages: Java, JavaScript (ES6+), SQL, Python, C++

Frameworks & Libraries: Spring Boot, Hibernate, React, Angular, Bootstrap, Tailwind CSS

Web & API Development: RESTful APIs, JSON, WebSocket, Responsive Web Design, Swagger/OpenAPI

Databases: Oracle, MySQL, PostgreSQL, SQL Server

Cloud & DevOps: AWS (EC2, S3, IAM, Lambda, CloudWatch), Azure (App Service, Functions, Key Vault), Docker, Kubernetes, Jenkins, Git, GitHub, Prometheus, ELK Stack

Testing & Development Tools: JUnit, Mockito, Postman, IntelliJ IDEA, Eclipse

Machine Learning & AI: Deeplearning4j (DL4J)

Domain Expertise: Patient Management Systems (PMS), Electronic Health Records (EHR), HIPAA Compliance, ERP Systems

Soft Skills: Agile/Scrum Methodology, Root Cause Analysis, Documentation, Stakeholder Engagement, Problem-Solving, Communication, Collaboration

Professional Experience:

Full Stack Java Developer, CVS Health

Jan 2025 - Present | TX

- Developed EHR and PMS modules using Java, Spring Boot, Hibernate, and React, optimizing workflows for over 12,000 healthcare users, improving system efficiency by 26% across clinical operations.
- Deployed enterprise-scale healthcare systems on Azure App Service and Functions with PostgreSQL and SQL Server, managing 1.5M+ patient records via Azure Key Vault, ensuring 99.9% uptime and full HIPAA-compliant data governance.
- Engineered RESTful APIs and WebSocket integrations for 50+ medical systems, reducing latency by 18%, and documenting endpoints with Swagger and OpenAPI for seamless interoperability and maintenance.
- Applied Deeplearning4j (DL4J) to build predictive models for clinical risk and operational insights, enhancing decision accuracy by 28%, and generating an estimated \$120K operational impact.
- Utilized Python for automation of data validation scripts and healthcare analytics workflows, improving diagnostic data processing speed by 30% and enabling faster insights across patient datasets.
- Leveraged C++ for performance-critical service modules and algorithm optimization within legacy integration layers, reducing computation time for real-time health metrics by 20%.
- Monitored microservices and application health using Prometheus and ELK Stack, identifying performance bottlenecks early and reducing system downtime by 22% across distributed healthcare environments.
- Directed Agile/Scrum releases using Jenkins, Docker, and Kubernetes, executing 8+ monthly deployments, improving build reliability by 35%, and collaborating through GitHub for continuous integration and peer code reviews.

Junior Full Stack Developer, DXC Technology

Jun 2021 - Dec 2024 | CA

- Designed financial modules using Angular, Bootstrap, and Tailwind CSS, delivering responsive interfaces for 100K+ users, deploying on AWS EC2 and Lambda to enhance transaction efficiency and platform scalability.
- Optimized JSON-based RESTful APIs for secure payment processing, reducing response times by 24%, while protecting sensitive financial data using AWS IAM roles and permissions aligned with enterprise compliance policies.
- Maintained Oracle and MySQL databases, managing 5M+ transactions, improving reconciliation efficiency by 27%, and lowering operational costs by approximately \$80,000 annually through query optimization and automation.
- Built internal automation tools and API test utilities using Python, streamlining backend validation and reducing manual QA effort by 25% across development sprints.
- Developed C++ utilities for financial data parsing and performance tuning, enhancing backend transaction processing throughput by 18% on AWS-based systems.
- Executed unit and API testing using JUnit, Mockito, and Postman in IntelliJ IDEA, reducing defects across 12 core financial modules by 32%, improving reliability and customer transaction success rates.
- Coordinated with product and operations teams using Agile/Scrum, integrating Git for version control, ensuring deliverables across three functional sprints aligned with project timelines and client expectations.
- Implemented AWS CloudWatch and S3-based monitoring pipelines, tracking application logs and financial data backups to ensure 99.8% data availability and proactive anomaly detection across distributed systems.

Education :

Bachelor of Science in Computer Engineering

University of California San Diego (UCSD), San Diego, CA

Jan 2019 - Jun 2025

Relevant Coursework: Data Structures & Algorithms, Embedded Systems, Operating Systems, Computer Networks, Software Engineering