AHMAD IBRAHIM

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Professional Summary

Software Developer experienced in building backend services in **Python** for a telecom software testing company, as well as building websites using **React and Next.js** for frontend, and **PostgreSQL** for the backend database. I am also knowledgeable in **Java**, **C# and Azure cloud services**. In addition, I have hands-on experience leveraging **agentic AI tools** to accelerate development workflows, automate testing, and improve project quality. Passionate about technology, solving problems and being a part of building and maintaining scalable solutions. I am looking to further my career as a software engineer.

Technical Skills

Languages: Python, Java, C#, JavaScript/TypeScript
Database: PostgreSQL
Cloud: Azure App Services, Azure Functions, Azure Open AI
Tools: GitHub, Jira, Confluence, VS Code/Studio, Cursor, Claude Code
Frameworks & Tools: React, Node.js, .NET, Git, REST APIs, CI/CD
Testing: Unit Testing, Integration Testing, Test Automation, Playwright
Other: Linux/Unix, Bash scripting, SQL, API Development, Agile/Scrum, Agentic AI

Professional Experience

Software Engineer | Intellica Inc. | Bellevue, WA   January 2025 – September 2025
- Identified and documented over 200 parameter mismatches across multiple telecom gateway models through Python-based validation automation
- Built a Python automation API to convert large sets of TR-181 (Technical Report 181) data model (a public data model that is used as a reference for telecom companies) parameters into a structured Excel report, for validation with device data model
- Diagnosed and engineered a fix for false-positive results in SSID automation by identifying undocumented requirements for a commit operation and integrating auto-commit logic into the test framework
- Designed and implemented backend test-automation services in Python for gateway data models with integrated parameter validation workflows
- Enhanced gateway deployment reliability through comprehensive input boundary testing and error handling mechanisms
- Collaborated with QA and DevOps engineers to define validation logic, document processes, and support CI/CD-ready testing practices
- Tools: Python, BitBucket, Jira, Confluence, VS Code, Terminal/Bash

Software Engineering Internship (Remote | Part-time) | Skillspire | Sistahology | Seattle, WA   April 2025 – August 2025
- Developed and deployed a full-stack journaling web app with secure authentication, profile management, and dynamic content delivery
- Strengthened DB security by implementing RLS (Row-Level Security), role-based access, and Supabase triggers; reduced potential data leaks to 0% in tests
- Built automated Playwright test suites (UI, auth flows, accessibility); cut manual QA cycle time from ~2 days to <2 hours
- Improved site reliability by debugging and optimizing auth bootstrap, reducing session load errors by 80% across dev/preview builds
- Integrated Git/GitHub workflows, CI/CD prep for Vercel, and migration scripts for schema/index optimizations (write-heavy performance)
- Tech Stack: React, TypeScript, Supabase (Postgres, Auth, RLS), Playwright, Vercel, Git/GitHub, Node.js, TailwindCSS

IT Systems Engineer | Denali Advanced Integration | Redmond, WA   June 2024 – December 2024
- Automated and standardized provisioning workflows for enterprise scanner devices, supporting scalability of deployments for major clients
- Assisted in server and network hardware installation across IDF (Intermediate Distribution Frame) and MDF (Main Distribution Frame) environments
- Documented deployment procedures and technical configurations to support repeatable rollouts
- Collaborated with deployment teams to track, test, and document device configurations, improving turnaround time and consistency across IT rollouts

Network & Systems Administrator / AV Operations | MAPS, Redmond   April 2023 – June 2024
- Managed MAPS' digital AV infrastructure, including a network-based audio system with centralized control over distributed speaker systems and live streaming technology, coordinating with staff and volunteers to ensure smooth event execution
- Administered the internal network systems, including basic network configuration and connectivity troubleshooting
- Gained hands-on experience with enterprise-level AV systems, including signal routing, IP-based device control, and system resets – with strong understanding of how components integrate in a larger digital environment

Education

Bellevue College - Bellevue, WA   2025
B.A. Coursework in Advanced Computer Science and AI Systems (In-Progress)

Open University – Milton Keynes, United Kingdom   2020
B.Sc in Computer Science & Information Technology, 2nd Class Honors
Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming, Programming with Java & Python

Certifications

C# & Azure Cloud Development | Skillspire | Microsoft | Certificate ID: c5764787-febc-496d-824f-b144c4af45b3   April 2024 – August 2024
- Developed a conversational AI chatbot using C# and .NET Framework, integrated with Azure OpenAI (ChatGPT) for context-aware user interactions and automated customer support workflows
- Engineered object-oriented solutions implementing design patterns, custom data structures (linked lists, stacks, queues), reduced unnecessary allocations and understood garbage collection behavior
- Applied Test-Driven Development practices with comprehensive unit, functional, and integration test suites; achieved 85%+ code coverage through systematic debugging and quality assurance
- Delivered full-stack capstone project following industry SDLC practices: requirements gathering, architecture design, implementation, CI/CD integration, and technical documentation

AI Development & Automation Certificate | Skillspire | Microsoft   July 2025 – September 2025
- Orchestrated a team of AI agents (Frontend, QA Lead, DB Guardian, Repo Librarian) to automate coding, schema checks, UI tests, and documentation
- Automated DB audits and GitHub repo maintenance via Claude MCP servers; accelerated iteration speed by 3× compared to manual workflows
- Leveraged AI for collaborative code reviews and deployment planning, aligning outputs with human-level engineering standards