OMARI NYARKO

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TECHNICAL EXPERIENCE

Microsoft VS Code Open Source Project
Open Source Contributor   **July 2025 – Present**
- Resolved long-standing issues in the codebase related to extension behavior, boosting reliability and reducing crash reports by an estimated 20%.
- Refactored workbench and editor modules to enhance maintainability and streamline feature development.
- Collaborated with cross-functional teams to deliver high-quality, well-tested code improvements.
- Utilized: TypeScript, JavaScript, Node.js, Git, VS Code APIs

Alden Health
Software Engineer Contractor   **August 2025 – Present**
- Engineered secure, performant browser automation to extract patient data from API-less EHRs, enabling interoperability while ensuring HIPAA compliance.
- Built EHR integrations using secure APIs (FHIR/HL7) to automate patient data exchange, reducing manual work by 35%.
- Utilized: Python, FastAPI, PostgreSQL, AWS, Browserbase

Saafi Software Services   **May 2024 – Present**
Co-Founder
- Co-founded and led a dev agency delivering 15+ custom apps across healthcare, e-commerce, and fintech, boosting client efficiency by 35% on average.
- Built and led a remote team of 2, streamlining workflows to cut project delivery time by 40% while maintaining 98% client satisfaction.
- Provided software consulting to 20+ companies, modernizing legacy systems and driving digital transformation that boosted competitiveness by 73%
- Utilized: Cursor, React, Node.js, Python, Flutter, AWS, Docker, Figma, PostgreSQL, MongoDB

Zulip Open Source Project | Remote
Open Source Contributor   **July 2024 – Present**
- Implementing efficient caching strategies leading to a 25% reduction in server response times for message delivery.
- Collaborated with the global community to resolve concurrency issues, improving system stability and reducing error rates by 15% across high-load deployments.
- Utilized: Flask, Python, TypeScript, JavaScript, Docker

BigOrders
Software Engineer   **January 2023 – May 2024**
- Developed BigOrders, a real-time group food ordering platform that cut order processing time by 40% through collaborative order management.
- Implemented secure auth with session management to isolate user data, boosting platform security and increasing user trust and engagement by 30%.
- Designed a receipt system that groups items by user, calculates subtotals, and simplifies payments, reducing billing errors by 25%.
- Utilized: Flask, Python, Java, SQLite,Gunicorn

Amazon Web Services | Bellevue, WA
Software Development Engineer Intern   **May 2022 – August 2022**
- Developed a throttling mechanism for Amazon Keyspaces Sidecar to prevent brownouts, ensuring 99.997% service availability across distributed systems.
- Implemented request classification to identify throttled requests for retry during low load, improving customer satisfaction by 17%.
- Developed integration tests for Apache Cassandra and Amazon Keyspaces, advancing full compatibility testing and boosting test coverage by 30%.
- Created queries to detect Cassandra–Keyspaces gaps, cutting troubleshooting by 20% and accelerating feature decisions.
- Utilized: TypeScript, AWS, Java

AI & MACHINE LEARNING PROJECTS

BetterSEO AI Analytics Platform
AI/ML Engineer & Full-Stack Developer
- Built AI-powered SEO platform using NLP and LLM models to analyze content, predict rankings, and automate recommendations.
- Implemented multimodal AI models for trend analysis and predictive modeling, boosting SEO effectiveness by 50%.
- Utilized: Python, TensorFlow/PyTorch, OpenAI API, NLP libraries, React.js, Node.js, AI-powered analytics, Predictive modeling algorithms

AI-Powered Phone Screening System
Full-Stack Developer
- Built AI-driven phone screening system using LLM APIs to automate first round interviews.
- Designed operator console with call management, transcript analysis, and workflow optimizations.
- Developed conversational AI dialogue system ensuring consistent candidate evaluation across technical fields. .
- Created secure API architecture with comprehensive logging and transcript storage capabilities.
- Utilized: Next.js 14, TypeScript, Tailwind CSS, shadcn/ui, SQLite/PostgreSQL, API ,o9 integration

EDUCATION

Calvin University – Grand Rapids, MI
Bachelors of Science in Computer Engineering & Computer Science
GPA: 3.94/4.00
Relevant coursework: Applied Computing, Machine Learning, Network Security, Cloud Security, NLP,Distributed Computing Systems, Web Technologies

SKILLS & CERTIFICATIONS

Languages: Python, Java, Kotlin, C/C++, TypeScript, JavaScript, SQL
Framework/Technologies: React, Node.js, Flask, FastAPI, .NET, Terraform, TensorFlow, Docker, Kafka, AWS, MongoDB, PostgreSQL, MySQL, SQLite
Tools: GitHub, Linux, Docker, Figma, Regex, TestNG, Gitlab, VS Code, UNIX
Soft Skills: Leadership, Product Management, Communication, Entrepreneurship

LEADERSHIP EXPERIENCE

National Society of Black Engineers |President | Grand Rapids, MI   **July 2021 – June 2022**