SAMUEL NDUBUISI

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EDUCATION

Bachelor of Science (B.S.) in Computer Information Systems (Software Development) & Associates in Applied Business in CIS
The University of Akron, Akron, Ohio..August 2019 - December 2024
- **Relevant Courses:** OOP (Java, C++, C#), Python, System Design & analysis, Data structures & algorithms, Discrete Math, Software Engineering, Client-Server Programming, Data Science, Calculus, Database Management, Network Configuration, and IT architecture.
- **Dean's List:** Fall 2022 & Spring 2023

EXPERIENCE

Software Engineer
Antares Vision Group (Rigid Containers)………………………………………………………………………………………………January 2025 – Current
- Maintained and enhanced machine vision algorithms using OpenCV and physics-based models to improve defect detection accuracy in rigid container inspections in collaboration with imaging scientists.
- Developed and trained defect classification models with PyTorch machine learning framework, reducing manual inspection time by 25% in production environments.
- Collaborated with the firmware team to implement a multithreaded inspection system, boosting throughput by 30% in real-time applications.
- Maintained and debugged legacy enterprise software built with MFC, C++, PostgreSQL, and gRPC to ensure system reliability across global deployments.
- Contributed to migrating a legacy system to a modern stack using Vue.js, Quasar, .NET C#, PostgreSQL, gRPC APIs, and Consul for improved scalability, with prototype available for testing after first quarter.
- Wrote unit and integration tests with Jest and GoogleTest, ViteTest, and implemented CI/CD pipelines using Azure DevOps, SonarCloud, Docker, and Kubernetes to automate deployments and ensure consistent, scalable environments.
- Built a full-stack internal analytics tool for inspection data visualization, supporting system diagnostics and quality assurance analysis.

Freelance Software Developer
Fiverr...January 2022 – Dec 2024
- Built responsive full-stack web applications using React, Next.js, Node.js, and Express.js, increasing client engagement by up to 40%
- Integrated RESTful API-driven solutions tailored to client requirements, improving real-time functionality and user experience.
- Developed a Java/Kotlin cross-platform mobile application for a client, delivering personalized user experience and facilitating business growth through efficient data management.
- Collaborated closely with clients to gather and refine requirements, ensuring on-time and within-budget project delivery.
- Full-stack application built with Next.js that allows customers to book bin cleaning services in the Greater Cleveland area. The website includes a public-facing frontend for customers and a secure admin dashboard for business management.
- Applied AI-driven insights to full-stack analytics tools to enhance business management and decision-making for small clients.

Application Engineer Intern (IS Infrastructure)
Snap-on Business Solutions...Dec 2022 – August 2024
- Managed back-end infrastructure and automated routine tasks using Python and Ansible, resulting in a 15% reduction in system downtime through proactive monitoring and task automation.
- Engineered automated deployment workflows in the AWS Cloud environment, utilizing Terraform, Ansible, git for version control and Jenkins to streamline processes and minimize manual intervention. Enhanced system reliability by implementing advanced network configuration solutions and scaling Linux server clusters, increasing system uptime by 20%.
- Contributed to migrating an internal Java-based legacy system to a modern application using **TypeScript, React, Angular, and Node.js**, enhancing maintainability, performance, and scalability while introducing newer technologies that better align with current development standards.
- Delivered complete software solutions using the Scrum framework, managed with Jira, ensuring projects were completed on schedule and aligned with business goals.
- Developed RESTful APIs and microservices, contributing to modular and flexible system architectures that improved system performance by 15%.

KEY SKILLS & TECHNOLOGIES

- Programming & Scripting: Python, Java, C/C++, JavaScript, PHP, Node.js, C#, Bash/Shell Scripting
- DevOps & CI/CD: Git, SVN, TFS, Jenkins, GitLab CI, GitHub Actions, Docker, Kubernetes, Ansible, Terraform, Jira, AzureDevOps
- Cloud Services:
    - AWS: EC2, S3, IAM, API Gateway, Lambda, CloudFormation
    - Azure: App Services, IAM, Azure Functions, Azure API Management
- Web and Mobile Development (Client and Server-side): React, React Native, Next.js, Svelte, Vue.js, Angular, HTML, CSS, JavaScript/TypeScript, .NET, Swift, MERN stack, LAMP Stack, Apache Tomcat, Maven, Firebase, Vercel.
- Database Management: SQL, MySQL, PostgreSQL, MongoDB
- Network: TCP/IP, UDP, LDAP, SSH/SFTP, DNS, TLS, CDN(Akamai), Load balancing
- Operating Systems: Unix/Linux (RHEL, Ubuntu, Debian, MacOS, IOS, Android), Windows.

LEADERSHIP

- Contributor to Byteflow organization: Led projects that enhanced development operations, increasing team productivity by 40%.