NIRMITH VICTOR D'ALMEIDA

SOFTWARE DEVELOPER - React Development, Python Programming, .NET Frameworks
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Skills

- **Programming Expertise**: C#, Python, JavaScript, TypeScript, SQL, building secure, scalable applications.
- **Frameworks & Libraries**: Angular, React, .NET (MVC), Spring Boot, integrating front-end and back-end.
- **Database Management**: MS SQL Server, MongoDB, PostgreSQL, enhancing data retrieval speed.
- **Development Tools**: AWS, Azure DevOps, Docker, Git, Jenkins, streamlining CI/CD pipelines for workflows.

Work Experience

Software Developer Volunteer **May 2023 – August 2024**
Carleton Computer Science Society (Club), Ottawa

- Designed front-end authentication using React and C# .NET with MVC architecture, integrating OAuth 2.0 for secure login, session management, ensuring scalability, and reducing login error rates by 25%.
- Enhanced system deployment processes by integrating Docker containers and Kubernetes orchestration, achieving a 40% improvement in system scalability and facilitating faster rollouts with collaboration across diverse teams.
- Led workshops for 25+ junior developers on agile practices, version control, and sprint planning, fostering teamwork, improving efficiency, and driving a 20% productivity boost in key project deliverables.

Test Automation Engineer Intern **September 2022 – April 2023**
Ceridian, Remote

- Constructed test automation scripts using Selenium, SpecFlow, and C# with TestNG integration and data-driven testing, solving manual testing bottlenecks and reducing workloads by 40%, enhancing release frequency.
- Improved code quality by conducting 50+ code reviews, utilizing static analysis tools, reducing production defect rates by 35%, and maintaining 85% test coverage through proactive problem-solving and peer collaboration.
- Deployed digitized testing solutions into CI/CD pipelines with Jenkins and Docker integration, cutting build verification times by 90%, accelerating code integration, and reducing deployment downtime by 25%.

IT Systems Intern **May 2022 – August 2022**
Bahrain Royal Flight, Bahrain

- Redesigned backend REST APIs for cross-hardware communication with JSON parsing and WebSocket integration, strengthening system robustness and solving network errors, reducing failures by 25% in stress-test.
- Created a desktop inventory and flight tracking application using VB .NET and LINQ queries, increasing data efficiency by 35% while addressing maintainability challenges with an MVC architectural approach.
- Reduced system downtime by 15% by implementing advanced diagnostic tools, SNMP protocols, and automating server health monitoring, ensuring continuous system availability and solving critical infrastructure issues.

Automation Test Intern **September 2021 – December 2021**
Assent, Remote

- Enhanced front-end applications by developing new features with Angular, Bootstrap, TypeScript, RxJS, REST APIs, and Webpack, improving system performance and solving issues, boosting user satisfaction by 25%.
- Leveraged Jenkins for CI/CD workflows with Docker, Kubernetes, Maven, Ansible, Git, REST APIs, Helm, Terraform, facilitating 50+ automated builds and driving deployment frequency improvement by 30%.
- Collaborated with teams to implement performance improvements using Webpack, Redis, Gzip, Chrome DevTools, SQL indexing, REST APIs, and HTTP/2, solving bottlenecks and reducing page load times by 20%.

Projects

Mini Agent September 2024 – Present
Technologies: Python, PyTorch, Ollama LLM, Git, Docker, Llama Index

- Built an AI coding assistant with functionalities akin to Cody AI, leveraging PyTorch, Llama Index, Transformers, and NLP techniques, reducing code writing time by 40% for developers with advanced suggestion features.
- Integrated PDF parsing and automated code generation, enabling seamless handling of 10,000+ documents monthly, enhancing developer productivity by 25% and improving workflow efficiency across use cases.

Education

Bachelor of Computer Science (Honors) August 2024
Carleton University, Ottawa, ON