Adrian **John**

Senior Software Engineer

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Profile

Detail-oriented and results-driven full stack software engineer with 6+ years of experience, heavily involved in every stage of the SDLC. Proven ability to build complex systems from the ground up, maximizing performance and user experience.

Skills

Soft	Complex problem solving, Team collaboration, Continuous learning, Analytical thinking
Programming	OOP, JavaScript, Python, PHP, NodeJS, TypeScript, Django, Java, ColdFusion, React
Tools	Jira, Docker, Git, GitHub, AWS, CI/CD, Windows/Ubuntu Server Administration
Databases	RDBMS (MySQL, SQL Server), NoSQL (MongoDB, Redis)

Experience

Sr Analyst / Programmer | Indiana University – Bloomington, Indiana **03/2025 – Present**

- Performs full-stack development for sunapsis, a CRM supporting over 50% of international students and scholars entering the United States, using JavaScript, JavaFX, MSSQL, ColdFusion, and XML. Resolve bugs and implement new features across various areas of the application, including data feeds, workflows, forms, alerts, and the Real-Time Interface with SEVIS.
- Conducts quality assurance and code reviews to ensure code quality, functionality, and maintainability, adhering to best practices.
- Provides Level 3 (L3) technical support to the Client Experience team to troubleshoot and resolve complex technical issues.
- Improved web accessibility to meet WCAG 2.1 standards with tools like Lighthouse and WAVE.
- Present at conferences and workshops on new software releases and engage with current and prospective clients.

Research Assistant / Developer | University of South Dakota | Vermillion, South Dakota **08/2023 – 06/2024**

- Developed a bidirectional 3D digital twin with React, Babylon.js, and Node.js to simulate a biofilm environment, enabling biomedical engineering researchers to remotely control, monitor and analyze biofilm growth in real-time.

Programmer Analyst | Bermudez Group | Trinidad, Caribbean **01/2021 – 07/2023**

- Developed an inventory management system with Django, React, JavaScript and MSSQL to optimize data entry, improve data accuracy and eliminate redundant tasks in the truck loading process.
- Streamlined the HR department by digitizing forms, paystubs and workflows for 3,000+ employees, saving the department substantial hours of administrative work.
- Developed multisource ETL pipelines with Python and MSSQL to process 10M+ records daily.
- Other: Integrated Microsoft 365 services into in-house applications utilizing the Graph API. Implemented CAPTCHA verification on public-facing endpoints. Enabled real-time dashboard updates with MQTT. Configured Windows Server services and applications, including Apache and SQL Server.

Software Developer | AV Knowles | Trinidad, Caribbean **10/2019 – 01/2021**

- Successfully rebuilt the legacy ERP application with PHP (Phalcon), JavaScript and MySQL which generates over $2M in monthly revenue, increasing system performance, enhancing UI/UX and optimizing data management.
- Achieved a 45% response time improvement in the REST API public-facing endpoints by optimizing SQL queries and utilizing caching strategies.
- Implemented a payment gateway, enabling online payments during the COVID-19 pandemic.

Education

University of South Dakota **08/2023 – 12/2024**

Master of Science in Computer Science

Astronomy Club (Telescopes) tech lead.

College of Science Technology and Applied Arts of Trinidad &Tobago **09/2015 – 08/2019**

Bachelor of Science in Internet Technology

Highest GPA Award

IGOV HACKTT Hackathon 2nd Place and 2018 ACM ICPC Latin American Finalist

Certifications

Senior Developer Roadmap	**Zero to Mastery**	**2024**
Front-End Development	**freeCodeCamp**	**2022**
Data Structures & Algorithms	**Zero to Mastery**	**2022**

Projects

UniBuds is a real-time social media app aimed at helping university students make friends. **DEMO** | **CODE**

React | Redux | NodeJS | MongoDB | Git | WebSocket | Redis | JWT | Docker | SPA | AWS S3 SES | CI / CD

OnSite is a career platform dedicated to hybrid and onsite jobs. **DEMO** | **CODE**

Django | Python | SQL Server | HTML | CSS | JavaScript | jQuery | Bootstrap | Git | MVC | Docker | AWS S3 SES