Adrian John
Software Developer

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- JavaScript | Python | Java | PHP | NodeJS | TypeScript | Django | MySQL | Redis | MSSQL | MongoDB | HTML | CSS | React | Redux
- Docker | Linux | Windows Server | CI/CD | GitHub | Git | Cloud | AWS | MQTT | WS | SPA | MVC | OOP | Unit Testing | ML / AI
- Frontend | Backend | Full-Stack | Real Time | System Administration | Serverless | Digital Twin | Caching | Load Balancing

Experience

Research Assistant / Developer	University of South Dakota	*Aug 2023 – Present*

- Implemented real-time 3D digital twins with **Babylon.js** and **InfluxDB** to simulate Biofilm growth experiments.
- Configured & Managed **MQTT** brokers to facilitate **real-time** communication between real world and simulations.
- Debugged & containerized internal **MERN** applications to ensure application readiness.

Programmer / Analyst	Bermudez Group Limited	*Jan 2021 – Aug 2023*

- Completed automated pay slips delivery for over 3000 employees by designing and developing a **Django** app which integrated with the existing HR software.
- Developed a stock inventory management system with **Django**, **React, JavaScript** and **MSSQL** which eliminated paper consumption, improved data accuracy, and significantly reduced redundant tasks in truck loading process.
- Implemented Server Sent Events SSE to facilitate **real-time** dashboard loading
- Developed ETL scripts to process millions of records daily from various data sources using **Python** and **MSSQL** procedures.
- Configured and managed services on Windows Server including **Apache** and **SQL Server** to host applications.
- Integrated Microsoft Office 365 services into in-house applications via the **Graph API**, improving employee workflow efficiency.

Software Developer	A.V Knowles Limited	*Oct 2019 – Jan 2021*

- Developed modules to optimize reporting and data entry in the internal MVC ERP system with **PHP, JavaScript & MySQL** which generates 2+ million in revenue every month.
- Achieved a 45% response time improvement in the **REST API** for loans officers conducting credit searches via the external portal.
- Configured and managed **Ubuntu Droplets** on **digital ocean** to run **Apache** and **MySQL** services.
- Successfully implemented a **payment gateway** with **WI-Pay**, enabling online payments during the COVID-19 lockdown.

Education

Master of Science	University of South Dakota	*Aug 2023 – Dec 2024*

- Major in Computer Science
- Software Engineering & Machine Learning Concentration
- Telescopes Club Coordinator

Bachelor of Science	COSTAATT	*Sep 2015 – Aug 2019*

- Major in Internet Technology
- Awarded Highest GPA for the program
- IGOV HACKTT Hackathon 2nd Place and 2018 ACM ICPC Latin American Finalist

Solo Projects

- **UniBuds:** Being the only Caribbean student at the University of South Dakota, making friends was not always easy. I developed UniBuds, a real-time app that connects students at the same university.
  Utilized: React | Redux | NodeJS | MongoDB | Git | WebSocket | Redis | JWT | Docker | SPA | AWS S3 | CI / CD | **DEMO | CODE**

- **OnSite [In Progress]:** While there are many apps for remote jobs, there are none dedicated to onsite jobs. This career platform is dedicated to hybrid and onsite jobs only, making it the ideal platform for people like myself.
  Utilized: Django | Python | SQL Server | HTML | CSS | JavaScript | Git | MVC | Docker | AWS S3

- **AlgoViz** is an algorithms Visualizer built with vanilla JavaScript that offers an interactive way to explore and understand the inner workings of various algorithms and data structures, making it easier for new programmers to grasp its complex concepts.
  Utilized: JavaScript **DEMO | CODE**

- **ML Projects:** Convolution Neural Network Handwritten digits classifier | Support Vector Machine Iris Flower Classifier

Certifications

Senior Developer Roadmap	Zero to Mastery Academy	*Aug 2024*	Data Structures & Algorithms	Zero to Mastery Academy	*Jan 2022*
Front End Development	freeCodeCamp	*Aug 2022*	Problem Solving	HackerRank	*Sep 2020*