

Adrian John

SOFTWARE ENGINEER

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PROFILE

Detail-oriented and results-driven Software Engineer with 4+ years of experience, heavily involved in every stage of the SDLC. Proven ability to deliver robust software solutions and optimize system performance with cross-functional teams. Looking to contribute my expertise to a dynamic organization while expanding my technical skills and driving impactful results.

SKILLS

Soft	Complex problem solving, Team collaboration, Continuous learning, Analytical thinking
Programming	OOP, Algorithm & Data Structures, JavaScript, Python, PHP, NodeJS, TypeScript, Django, React, Redux, C#, Java
Tools	Docker, Git, AWS, CI/CD
Databases	RDBMS (MySQL, SQL Server), NoSQL (MongoDB, Redis)

EXPERIENCE

Research Assistant / Developer | University of South Dakota - SD, USA 08/2023 – 06/2024

- Implemented a bidirectional real-time 3D digital twin with React, Babylon.js and Nodejs to simulate a biofilm growth laboratory with real-time data from Arduino sensors via MQTT protocol, helping researcher explore & analyze these complex microorganisms.

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

- Developed an inventory management system with Django, React, JavaScript and MSSQL which streamlined data entry, improved data accuracy and eliminated redundant tasks in the truck loading process.
- Automated pay slips delivery for over 3000 monthly, weekly & daily paid employees with SQL Server and Python integrated with Microsoft Dynamics which saved the HR department 80+ hours weekly.
- Developed ETL pipelines to process millions of records daily from various data sources using Python and MSSQL procedures.
- Other: Integrated Microsoft 365 services into in-house applications via the Graph API. Implemented Captchas on public facing endpoints. Enabled real-time dashboard updates with SSE. Configured windows server services like Apache & SQL Server.

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

- Developed modules to optimize reporting and data entry in the internal MVC-based 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 public endpoint.
- Successfully implemented payment gateway, enabling online payments during the COVID-19 pandemic.

PROJECTS

UniBuds [DEMO](#) | [CODE](#)

Being the only Caribbean student at the University of South Dakota, making friends was not always easy. I developed UniBuds, a real-time social media app aimed to help university students make friends.

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

OnSite [DEMO](#) | [CODE](#)

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 me.

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

AlgoViz [DEMO](#) | [CODE](#)

An algorithms Visualizer built with vanilla JavaScript offers an interactive way to explore and understand the inner workings of various algorithms and data structures.

Machine Learning [CODE](#)

Neural Network Handwritten digits classifier & SVM Flower Classifier (GoogleColab, NumPy, matplotlib, pandas, sk-learn)

EDUCATION

University of South Dakota 08/2023 – 12/2024

Master of Science in Computer Science

Telescopes & Outdoor Club Marketing Lead

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

Bachelor of Science in Internet Technology

Awarded Highest GPA

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