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Shawon Ibn Kamal

About Me

4th-year Computer Science student at Memorial University with over 2 years of experience as a professional software developer in Blue Communications Inc.

Education

BSc. Computer Science (Honours, 3.81 CGPA), Memorial University of Newfoundland, St. John's

January 2018 - April 2022 (Expected)

Employment History

Programmer Analyst at Blue Communications Inc., St. John's

July 2019 — Present

- Design, develop, document, analyze, create, test, and modify computer systems, programs, and integrations by evaluating client needs.
- Work with Javascript, Laravel, PHP, SQL, ASP.NET to build enterprise applications.
- Manage projects through Git, CI/CD, and automate launching Ubuntu instances using AWS SDK.

Data Programmer at Department of Psychology & Ecology, Memorial University of Newfoundland, St. John's

September 2021 — Present

- Robustify the beta spectral data repository that will allow researchers to share their spectral datasets by maintaining a standard format.
- Develop big data manipulation scripts using Python to standardize datasets which are validated by the spectral data repository.

Full Stack Developer at South Park Driver Training, St. John's

January 2021 — Present

- Working on an existing web application using JS and PHP to build components for student log entries, LMS, billing calculation, and payroll for instructors.
- Migrated projects to manage in AWS and optimized site pages to load fast and efficiently using fewer resources.
- Fix any bug reports and continuously add new features as requested.

Research Assistant at Department of Mathematics & Statistics, Memorial University of Newfoundland, St. John's

January 2019 — April 2019

- Analyzed delay differential equations from several mathematical research journals.
- Determined stability and behavior of equations to compute bifurcation analysis using Matlab.

Projects

Share Notes

December 2019 — Present

- The successor of Shawon Notes which is an educational resource platform targeting the British curriculum of high schools reaching over 100k+ monthly page views.
- Built in REST API format using React and Laravel to ensure scalability and modularity as I continue to add more features and scale up the project.

Starcraft Competitive AI bot

March 2021 — May 2021

- Plays the game of Starcraft: Broodwar as Protoss race using real-time Artificial Intelligence decisions using C++ and BWAPI.
- Beats the built-in AI of the game using the "Zealot Rush" strategy that includes scouting, appropriate building placement, proper build order, and timing attacks

Game AI: Procedural Content Generation

March 2021 — April 2021

- Plays the game of Starcraft: Broodwar as Protoss race using real-time Artificial Intelligence decisions using C++ and BWAPI.
- Beats the built-in AI of the game using the "Zealot Rush" strategy that includes scouting, appropriate building placement, proper build order, and timing attacks

E-commerce Web Scraper

January 2021 — April 2021

- E-commerce web scraper built using Node.js and MongoDB that pulls the relevant information about items from Walmart and Best Buy and stores in the database.
- It tracks the stock information, price changes, and availability on each update and notifies the user about changes.

Achievements

Passed with Distinction in CICS Work Term with Blue Communications in criteria of Job Performance

December 2020

Received Spark Fund from Memorial University for getting started with the startup project Share Notes

October 2020

Skills

Languages: Python, Java, Javascript, NodeJS, PHP, SQL, HTML, CSS, C, C++, R, Matlab

Frameworks: ReactJS, Laravel, jQuery, MongoDB, Express, D3.js, SFML, Matplotlib, PIL, NumPy, SciPy, Pandas

Other tools: Docker, Linux Server, AWS, SMTP, S3, Apache, REST APIs, Visual Studio, Photoshop