Francis Ayyad

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Skills

Languages	JavaScript | TypeScript | Java | Python | HTML | CSS | C | R | Haskell | PHP | Assembly
Database	MongoDB | PostgreSQL | MySQL | Firebase | Django | Docker | Linux | UML
Frameworks	React | Node.js | Express | jQuery | Laravel | Android Studio | NumPy
Coursework	Software Engineering | Operating Systems | Computer Graphics | Machine Learning

Experience

DevOps Engineer | RMC Canada (Startup)   **Nov 2024 – present**

- Designed and deployed the **startup's website** from scratch using a **scalable MVC architecture** with **Node.js**, **Express.js**, and **Django**, achieving **99.9% uptime** and **25% faster load times**.
- Designed detailed **deployment diagrams** and **C4 diagrams** to ensure smooth deployment and efficient collaboration across the team, streamlining development and deployment workflows.
- Collaborated in a **team of 4** to build a scalable, user-friendly platform, meeting **tight deadlines** and ensuring successful delivery and deployment.

Web Developer | University of Toronto   **Apr 2024 – Aug 2024**

- Transferred educational web content from H5P modules to Drupal, enhancing functionality, scalability, and optimized navigation, resulting in a **20% increase in website traffic** and **15% faster load times**.
- Collaborated with a **multidisciplinary team of 5**, including tech leads, product managers, devlopers, and UI/UX designers, in conceptualizing and crafting engaging web content and layouts, resulting in a **15% improvement in productivity** by streamlining the content creation and review process.

Software Developer | University of Toronto   **Jan 2023 – Aug 2023**

- Identified processing inefficiencies on the Teacher Assistant Application website and leveraged **Laravel**, **MySQL**, **PHP**, **HTML**, and **JavaScript** to implement a batch application feature, used by **1000s of applicants** yearly.
- Enabled auto-filling for enrollment messages, improving the admin experience and **cutting manual effort by 50%**.
- Upgraded two applications from Laravel 6 to Laravel 9, ensuring optimal performance and compatibility with the latest technologies, which resulted in a **40% reduction in page load times** and **better security compliance**.
- Engaged throughout the entire software development lifecycle, from ideation and design to code development and quality assurance testing, contributing to the timely delivery of key projects.

Education

University of Toronto   **2021 – 2025**

HBSc – Computer Science (Co-op)   *Software Engineering Specialist*
HBSc – Statistics   *Statistics Major*

Awards

- Dean's List of Academic Excellence (2022)
- University of Toronto Scholarship (2021)

Projects

Magnify Access Grant Application Platform   ⚙ View on GitHub   **MVC Architecture | MERN | Tailwind CSS | Jest**

- Increased project **performance by 20%** through stakeholder interviews, identifying 4 critical missing components.
- Led an **Agile scrum of 7** and restructured roles by drafting a sprint report and projection, resulting in a **30% boost in task delegation** and a **40% improvement in progression rate**.
- Enhanced **code quality by 10%** through the adoption of 13 reusable **React components**, consistent **Tailwind CSS** styling, and resolving 6 critical bugs via **Jest** unit testing for back-end APIs.
- Implemented **DevOps principles** with continuous integration, using **Jira** for sprint planning and tracking, and **Docker** for containerization, completing the CI/CD pipeline.

Course Scheduler   ⚙ View on GitHub   **Java | Firebase | Junit | Mockito | OOP**

- Designed an Android mobile app with user-friendly front-end interfaces in an **Agile Scrum of 5**.
- Integrated Firebase Realtime Database, applied **OOP** and **SOLID** principles for efficient back-end development, improving database **query performance by 30%** and reducing **data retrieval time by 20%**.