MOHAMED BAYOMY

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PROFESSIONAL SKILLS

Experienced professional adept in providing technical support and developing innovative solutions in Java, PHP (Laravel), and JavaScript. Proven track record in full-stack development using Magento 2, React JavaScript, and SQL Server. Skilled in optimizing workflows, enhancing debugging processes, and maintaining transparent communication with stakeholders. Eager to leverage expertise in a collaborative environment to drive impactful projects and contribute to business success.

WORK EXPERIENCE

Programming support office, *Aston University, Birmingham*   01/2024 – Present

Java | PHP (Laravel) | JavaScript

- Led advanced Object-Oriented Programming modules at Aston University, teaching PHP development principles to computer science undergraduates, including designing practical coursework that emphasizes real-world application of OOP concepts through hands-on projects and industry-standard code reviews.

- Developed and taught specialized modules on PHP frameworks, including Laravel and Java, guiding students through building full-stack applications from conception to deployment, with emphasis on industry-standard development workflows and version control practices.

- Created and supervised practical database management coursework utilizing MySQL, teaching students how to design efficient schemas, optimize queries, and implement proper database relationships while maintaining best practices for data integrity and performance..

Full-Stack developer, *Magic42, Birmingham*   02/2022 – 11/2023

Magento 2 | PHP | React JavaScript | Tailwind CSS | SQL Server

- Spearheaded the migration of legacy REST APIs to GraphQL, resulting in a notable 50% reduction in endpoint latency and a 30% decrease in development time for a high-traffic consumer mobile application.
- Designed and implemented cloud infrastructure on AWS to support a startup's MVP product, achieving a remarkable 40% reduction in hosting costs.
- Successfully scaled the infrastructure to accommodate 100k Monthly Active Users (MAU) in under 6 months. Implemented industry best practices such as test-driven development, continuous integration, and adherence to SOLID principles, ensuring the delivery of high-quality, maintainable code. Developed REST APIs for seamless integration with client applications. Leveraged cloud infrastructure capabilities to deploy scalable solutions accessible via both web browsers and API clients.
- Enhanced debugging processes to streamline issue resolution, resulting in improved efficiency. Maintained transparent communication with stakeholders throughout the issue investigation and resolution phases, providing timely status updates.
- Collaborated closely with peers and customers to replicate issues, comprehensively understand their impacts, and devise effective solutions. Proficiently utilized source control tools and branching strategies, notably Git, to isolate bug fixes and safely integrate changes.

ERP web developer internship, *Peerless Technologies*   05/2019 – 09/2019

Vue.js | Odoo | Python (flask) | XHTML/XML

- Collaborated closely with the backend team to conceptualize, design, and implement Odoo modules for clients, as well as developing proprietary extensions and plugins.
- Led the creation of automated testing frameworks for OpenERP, significantly enhancing regression testing efficiency and reliability.
- Proficiently managed and customized Q-web reports, ensuring accurate documentation of generated metadata and maintaining consistency in reporting standards.

TECHICAL SKILLS

Front End | React, NextJS, Javascript, jQuery, Alpine, RequireJS, CSS, Tailwind, LESS, HTML
Back End | PHP, Java, Python, C#, Laravel, Magento, ASP.NET, MySQL
Testing/Deployment | Cypress, PHPUnit, JUnit, Jenkins, Github-Actions, JUnit, browser-stack
Developer Tools | Docker, Git, npm, Composer, Agile Methodology (Scumban), TDD, Shell-scripting(bash), Figma

- Integrated third-party APIs and services with Magento 2 using PHP and leveraged Laravel's capabilities for handling complex backend logic or microservices.

- Configured and set up continuous integration and deployment pipelines using Jenkins and GitHub Actions for streamlined code deployment to staging and production environments.

QUALIFICATIONS/CERTIFICATIONS

Bachelor of Science with honours, Computer Science, *Aston University, Birmingham*   09/2019 – 07/2022
- Grade 2:2
- Final year project 69
- Advanced database system 64
- Multi-Agent Systems

Adobe Suite Certificate, *Online*
- Adobe Commerce Developer Professional

UNIVERSITY PROJECTS/EXTRA CURRICULAR

Team Project (GitHub Repository: Anya Android Game):
- Collaborated on the development of an Android game during my second year, which was briefly available on the Google Play Store.
- Played a pivotal role in backend development using Java, specifically within the LibGDX framework.
- Spearheaded the coding efforts for essential game elements such as movement-animation, sound effects, and battlefield logic.

Final Year Project:
- Developed a sophisticated software solution as my final year project aimed at extracting concise and efficient summaries from websites.
- Utilized Python alongside prominent natural language processing libraries including NLTK, spaCy, and Gensim, integrating advanced algorithms like TextRank, cosine similarity, and word embeddings.
- Evaluated the software's efficacy using rigorous metrics such as F-measure, Recall, and Precision, benchmarking its performance against human-generated summaries. Achieved an impressive accuracy rate of 82%.

   EXTRA CURRICULAR

- **Public relations representative of the Arab society at Aston University**

- **Member of the Chess Society at Aston university.**

References available upon request