Jamal Keita

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Software

Work Experience

Software Engineer - Pension Protection Fund *(June, 2025 – Present)*

- Leveraged Sitecore CMS and Azure to construct and oversee enterprise web applications, resulting in an improvement in content delivery speeds and a 25% reduction in system downtime
- Verified and approved front-end and back-end functionalities within UAT environments, leading to a 10% reduction in post-release bug reports and elevated software quality standards across three product releases
- Integrated AI Copilot tools into the software development lifecycle, shortening code generation time and cutting down documentation workload for engineers by an average of 6 hours weekly
- Integrated automated code quality checks into Azure DevOps CI/CD pipelines, leading to a 20% decrease in code defects identified during testing and achieved overall code maintainability, with zero major bugs found
- Evaluated open-source and commercial software platforms, delivering comprehensive compliance reports that influenced the technology roadmap, resulting in a 10% reduction in software licensing fees through strategic platform selection
- **Key Skills: Sitecore , Azure , UPM, PowerBI , SQL, Copilot , HTML5, CSS3, JavaScript ES2023**

Python Developer Volunteer - Bincom Global *(Nov, 2024 – May, 2025)*

- Generated and maintained clean, efficient, and scalable Python code for internal tools, improving automation processes and reducing manual workload by 40%
- Spearheaded the refactoring of legacy Python codebase, reducing technical debt and improving performance through efficient data structures and algorithm optimization
- Harnessed Python libraries to dissect consumer data, identifying key trends that increased the accuracy of predictive models and directly leading to a 10% savings in marketing spend
- Wrote unit and integration tests with PyTest, achieving over 90% code coverage and improving system reliability
- Orchestrated collaborative software enhancements using Git and GitHub, managing 5-10 pull requests weekly and resolving 95% of assigned issues within 24 hours, accelerating feature implementation cycles
- **Key Skills: Python 3.12, Git, GitHub, PyTest, Pandas , NumPy**

Software Engineer Intern - Pregma Maternity Care *(Aug, 2024 – Sept, 2024)*

- Engineered an email booking system leveraging a calendar API, reducing consultation scheduling time from 15 to 3 minutes for over 50 patients monthly
- Improved code quality across the team's deliveries by leading daily brainstorming sessions which led to the adoption of three coding standards and resolved the team's output issues
- Implemented a secure single sign on feature that enhanced user authentication, reducing login related support tickets by 30% and improving overall customer experience
- **Key Skills: JavaScript ES2023, Laravel 11 , PHP 8.3 , SQL, Postman v11, Rest API, Laragon 6.0, TablePlus, Bitbucket**

Other Work Experience

Cloud Bootcamp - Firebrand Training *(Jan, 2023 – Mar, 2023)*

Certifications

- **Microsoft Azure Fundamentals (AZ900)**
- **Microsoft Azure Data Fundamentals (DP900)**

Projects

ChatBot AI (https://github.com/Jamal-Kei/reactai-chatbot)
- Constructed a responsive AI chatbot, leveraging React 18 and Node.js v22, that provided instant answers to user questions, streamlining the information access process and resulting in zero negative user reviews
- **Key Skills : React 18, JavaScript ES203, Cypress, Node.js v22, REST API, Dependabot, and GitGuardian**

Azure Resume Website (https://github.com/Jamal-Kei/azureresumee)
- Pioneered a cloud-based, fully responsive personal resume website using HTML5, CSS3, and JavaScript, resulting in 200+ visits from recruiters and potential employers within the first month
- **Key Skills: HTML5, CSS3, JavaScript ES203, API integration, and Azure**

Education

Nottingham Trent University *(Sept, 2020 - May, 2023)*
BSc. (Honours) Sport and Exercise Science