

MALACHI HUGHES

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TECHNICAL SKILLS

Languages | Python, TypeScript, JavaScript, PHP, SQL
Frontend | Vue.js, Angular, React, HTML, CSS, Playwright
Backend | AWS Lambda (Python), Node.js, WAMP stack, REST APIs
Cloud & DevOps | AWS (API Gateway, CloudWatch, RDS/Aurora), Jenkins, CI/CD
Databases | PostgreSQL, Amazon RDS, MongoDB
Tools | Git, Bitbucket, Jira, Confluence, Linear, Notion, OpenAPI, Fortify

EXPERIENCE

Software Engineer | Aspect

Apr 2024 – Present

Frontend & backend development for a modern workforce management platform Vue | TypeScript | AWS | Python | OpenAPI | Playwright

- Improved the reliability of the platform’s Schedule Preference engine by rewriting a core Lambda algorithm, resolving inconsistencies and enabling accurate preference application across complex user schedules.
- Enhanced UI automation by expanding Playwright TypeScript tests, **stabilizing flaky flows and increasing end-to-end coverage**.
- Collaborated with backend teams to **rename and refactor the Schedule Preferences feature**, updating every UI reference, code path, and OpenAPI definition without regressions.
- Designed and implemented a new Activity Icon Customization feature, including OpenAPI updates, Lambda logic, Python unit tests, and API automation.
- Regularly investigate production behavior using CloudWatch logs and API Gateway traces to **diagnose issues, improve performance, and harden API reliability**.
- Contribute to backend improvements using Python (Lambda) and Amazon Aurora/RDS to enhance schedule-related calculations and data workflows.

Associate Software Engineer | Alvaria

May 2022 – Apr 2024

Development for a large-scale contact center Gamification product PHP | Python | Angular | PostgreSQL | Jenkins | Fortify

- Maintained and enhanced Alvaria’s Gamification product—a contact center platform enabling tournaments, duels, rewards, and performance-driven KPIs for agents and supervisors.
- Integrated the entire product with Alvaria’s **Jenkins-based localization pipeline**, modifying both pipeline logic and a supporting C# localization service to automate ingestion, translation, and distribution of resource files across languages.
- Fully redesigned the product’s KPI Editor, adding a dual-mode interface with a simplified form-based editor and a JSON advanced editor. Bidirectional syncing allowed users to switch seamlessly between modes.
- Fixed numerous production bugs across PHP, Angular, and Python services while **maintaining high quality through extensive PHPUnit and Python automated tests**.
- Identified and resolved security vulnerabilities flagged by Fortify scans, **improving the product’s security posture**.
- **Built and launched a WAMP-stack License Management** tool for Gamification, centralizing license operations and removing manual processes.
- Collaborated closely with designers, product owners, and QA to refine UX, validate requirements, and ensure reliable release cycles.

EDUCATION

Bachelor of Science, Computer Science | Middle Tennessee State University

Aug 2020 - May 2022

Associate of Science, Computer Science | Northeast State Community College

Aug 2018 - May 2020