El-Farouk Rafaat

San Marcos, CA - (419) 973-0221 | linkedin.com/in/el-farouk-rafaat

Software Engineer skilled in designing, developing, and maintaining scalable web applications using Java, Python, and JavaScript frameworks (AngularJS, React). Experienced in building automated ETL pipelines with Python and SQL, implementing CI/CD pipelines with GitLab, Jenkins, and Docker, and deploying cloud-native solutions on GCP. Proficient in enterprise SSO integration (SAML/OAuth), RPA development (UiPath), and GCP Big Query and Database Management. Thrive in Agile environments, leveraging Git, Jira, and Confluence for efficient team collaboration and delivery.

Work Experience

THE HOME DEPOT   San Marcos, CA
Software Engineer   Jan 2024

- **Java Web Modernization:** Modernized legacy enterprise applications using Java, Gradle, OpenJDK, and Apache Tomcat 9; led migration from Pivotal Cloud Foundry (PCF) to containerized microservices (TinyHome), improving system scalability and reliability, and reducing infrastructure costs by 20%.
- **Enterprise Security & SSO**: Implemented single sign-on (SSO) using SAML 2.0 and OAuth 2.0; enforced security best practices and optimized logging/monitoring with Splunk, increasing system uptime to 99.99% and reducing security incidents by 25%.
- **Cloud Native & AI/ML**: Developed and maintained CI/CD pipelines with GitLab CI, GitHub Actions, Docker, and Jenkins; automated build, test, and deployment workflows, achieving a 30% faster deployment cadence and reducing production bugs by 15%
- **DevOps & CI/CD**: Built and maintained continuous-integration pipelines, automated release processes in GitLab/GitHub, and enforced quality gates—resulting in a 30% faster deployment cadence.
- **Workday Learning Administrator**: Managed content and reporting for over 30,000 employees in Workday Learning; optimized dashboards and training analytics, leading to a 20% increase in user adoption and improved training compliance rates.
- **Workday HCM Integrations**: Engineered and maintained REST API and ETL integrations between Workday HCM and enterprise platforms, supporting seamless HR data flows and reducing data sync errors by 50%.
- **RPA & Automation (UiPath)**: Designed, developed, and deployed robotic process automation (RPA) solutions in UiPath, eliminating manual work and reducing business process cycle times by 40%, saving an estimated 800+ staff hours annually.

Tech Stack & Tools: Java (OpenJDK, Spring Boot, Gradle, Apache Tomcat), Python, JavaScript (AngularJS, React), Workday (Learning & HCM), UiPath (RPA), Google Cloud Platform (GCP: AI/ML, Cloud Functions), SSO (SAML 2.0, OAuth 2.0), Git, GitLab CI/CD, GitHub Actions, Docker, Jenkins, REST APIs, DBeaver, Postman, Splunk, Jira, Confluence.

THE HOME DEPOT   Bowling Green, OH
Software Engineering Intern   May 2023

- **Log Healing UI & Automation**: Built an intuitive front-end using React, JavaScript, and Node.js to surface discrepancies between local and GCP logs.
- **Integrity Verification System**: Architected and automated a backend service that continuously compares local logs to Google Cloud Platform's logging API, pinpointing and flagging anomalies in real time.
- **Automated Remediation Workflow**: Developed a "self-healing" pipeline that automatically repairs log inconsistencies—achieving a 70% reduction in manual intervention for log maintenance.
- **Dev Practices & Collaboration**: Conducted peer code reviews, contributed to sprint planning, and embraced Agile rituals to deliver features iteratively and maintain high code quality.
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THE HOME DEPOT   Bowling Green, OH
Appliance Sales Specialist   April 2022

- Provided excellent customer care and developed invaluable soft skills.
- Increased department profits by over $50,000 and closed numerous sales.
- Utilized product knowledge in assisting customers with their selection and purchase of appliances.

Education

BOWLING GREEN STATE UNIVERSITY   Bowling Green, OH
Bachelor of Science in Computer Science   December 2023
Minor in Psychology

Awards: Dean's List, BGSU ACM Hackathon Winner, completed and published biological research at the CURS Research Symposium 2019
Organizations: Vice President of the Association for Computing Machinery BGSU Student Chapter

Projects

Software:
Developed a navigation app using Flutter and Android Studio that allows you to navigate BGSU's campus. (Flutter, Android Studio, Firebase, GCP) Developed a program in C++ that calculates the total internet usage per continent and the projected future growth.
Developed a Parking application using Flutter and Android Studio that uses Firebase and GCP to manage on Campus parking availability for student and faculty parking lots.
Hardware:
Built and maintained multiple Windows PC as well as installed multiple operating systems.

Languages and Citizenship

Languages: Native in Arabic, Fluent in English, and Conversational in French.
Citizenship: United States and Egypt