

Abdal Khan

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Summary:

Adaptable and proactive Software Engineer with 3+ years' experience in developing automated reporting scripts, analyzing code, authoring technical documentation, adept at enhancing test data quality, gathering requirements and developing AI chatbots.

WORK EXPERIENCE

Fannie Mae

Software Engineer

July 2023 – November 2025

- Developed an automated reporting script that outlined discrepancies and errors in the Jenkins *Pipeline as Code* configurations that were then emailed to a DevOps team as a HTML report with attachments detailing issues for remediation
- Utilized SonarQube to identify security gaps in the application code and upgraded critical vulnerabilities, remediating gaps in application security and maintaining a 99% uptime for critical business operations
- Wrote Confluence pages on critical application processes through analyzing logs enabling efficient testing, refactoring, and resolution of security related issues
- Automated email workflows using a bash script, enabling comprehensive testing of real-world application responses across various possible business scenarios and reducing manual effort
- Enhanced test data quality for a fraud detection application to align better with the production data, ensuring more accurate and reliable testing
- Regularly held meetings with business people and documented requested features to implement into our applications for ease of use

MSHI Solutions LLC

Independent Contractor

February 2020 – August 2020

- Automated photo uploads by developing a Python script integrated with jAlbum through a command-line interface (CLI)
- Maintained and updated a website by managing photo uploads and content changes through FTP using JavaScript and HTML

PROJECTS

Discord AI Chatbot | Python, Google Colab

July 2022

- Created an AI chatbot by training on a DialoGPT model using a custom transcript
- Integrated the chatbot with Discord API, enabling seamless user interactions with the Discord platform

Portfolio Website | HTML, CSS/Bootstrap

July 2021

- Developed a responsive portfolio website to display personal projects, ensuring accessibility and optimal user experience across desktop and mobile devices

EPOCH Medical Web Portal | HTML, CSS/Bootstrap, JavaScript

June 2021

- Designed a medical web portal that stored and processed patient data
- Collaborated with a doctor to identify common UI design issues while using real world applications, enhancing the medical portal's usability.

EDUCATION

University of Maryland, Baltimore County

B.S. Computer Science

August 2018 – May 2022

SKILLS

Programming: Python, JavaScript, Bash, SQL, Java, C/C++, AngularJS | **Web & Data:** HTML, CSS/Bootstrap, JSON, XML

DevOps & Cloud: Jenkins, AWS (Lambda, ECS, ECR, CloudWatch, SQS, SNS, S3), Terraform, UrbanCode Deploy, CI/CD, Automation, Incident Management

Security & Testing: SonarQube, Selenium, Splunk | **Tools:** VMware, PuTTY, Google Colab, Jupyter Notebook, Git (Bitbucket, GitHub, GitLab, Copilot), Confluence, JIRA

Methodologies: Agile (Scrum, Kanban)

Certifications: AWS Cloud Practitioner