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 – Present*

- 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 developed a Python script integrated with jAlbum through a command-line interface (CLI)
- Maintained and updated a website by managed 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