Atiq Islam

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EDUCATION

McMaster University   Sep 2018 – Apr 2023
Bachelor of Engineering — Computer Engineering
Courses: Software Development, Operating Systems, Data Structures & Algorithms, Embedded Systems, Computer Networks, Numerical Methods

WORK EXPERIENCE

Software Delivery Engineer   2022
CGI Inc.
Skills: Python, Bash, GIT, Jenkins, Oracle SQL Developer, Bitbucket, JIRA, Confluence
- Incorporated CI/CD with Jenkins to create pipelines that automate deployment for mandatory Unix files to 2 different clients.
- Directed a set of individuals to deploy over 12 microservices to 4 clients using bash scripts and Jenkins pipelines.
- Wrote Python functions to automate SSH connections to over 14 servers in Putty.
- Wrote SQL scripts in Oracle SQL Developer to parse through and debug problems in over 6 different tables.

Information Technology (IT)   2021
Innunco Academy
Skills: Python, Excel
- Utilized Python and Excel to design and implement custom automation solutions for file management and client emailing, resulting in improved efficiency and productivity.
- Developed and maintained day-to-day operations and scheduling for online systems.

PROJECTS

Smart Security System   2023
Skills: Python, Flask, HTML5, CSS3, Tailwind, Linux, Putty, GIT
- Led the development of a smart security system project that encapsulated hardware, backend, and frontend aspects of engineering, utilizing a Raspberry Pi to capture live video feeds.
- Developed a robust backend utilizing a Flask server for handling routing and HTTP requests with the added functionality of capturing and storing data for training models and adding new faces.
- Implemented Flask routes for two USB cameras, generating infinite frames to create an asynchronous video stream.
- Developed and implemented frontend components to create a user interface for displaying live video feeds, adding new faces, checking user history, and training the model.

Book Discussion Forum (Social Media App)   2022
Skills: Python, Django, JavaScript, HTML5, CSS3, Bootstrap, SQLite, GIT
- Solely planned, designed, built, and tested a custom social media web app in the Django backend framework.
- Used Django models and the SQLite database to create tables holding user, chat room, and book data.
- Used Python channels and web sockets to create an asynchronous chat room that stores and saves messages in the database leading to increased user interactions.
- Added CRUD functionality using Django forms and class-based views for users to store their favorite books and discussions.

Software Defined Radio   2021
Skills: C++, Python (Numpy, Scipy, Matplotlib), Linux
- Worked in a group of 4 to plan, design, build and test a custom software radio in a Unix environment with Raspberry Pi.
- Used Python with the Numpy and Scipy libraries to model thousands of blocks of filtered audio data via Fourier analysis.
- Implemented algorithms in C++ to filter dozens of collected raw audio data into clear audio upon execution of the program.

SKILLS & OTHER

Languages and Frameworks: Python (Django, Numpy, Scipy, Matplotlib), JavaScript (React, Express), Databases (PostgreSQL, SQLite, MongoDB), Node, Bash, HTML5, CSS3 (Bootstrap), C++, C#, Java
Tools: Docker, Jenkins, Git tools (Sourcetree, BitBucket, GitHub), JIRA, Confluence, Oracle SQL Developer, Putty