Matthew Brian Darmadi

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PROFESSIONAL SUMMARY

I am an IT professional with over four years of experience in: software development, automation, and AI tools; specializing in Python, PowerShell, and cloud platforms. Proactive and self-driven, I excel in automating processes and leveraging industry-standard collaboration tools. With a strong background in computer science, I have experience shipping software with rigorous unit & functional test cases, enhancing user experience, and managing SQL and NoSQL databases for a large SaaS clientele.

PROFESSIONAL EXPERIENCE

TYLER TECHNOLOGIES, Seattle

IT Technician level 2/ Software Developer, November 2021- Present

- Developed software solution, to automatically and remotely execute uptime-critical service reboots using WinRM
- Developed software that automates spool folder archiving and organizing, resulting in a 22% workflow improvement.
- Developed and implemented software solution for automated SSL certificate renewal across multiple servers remotely. Consolidated workload of 5 technicians' entire day into an hour work, solo.
- Revamped Support Specialist workflow for enhanced automation, reduced errors, and increased efficiency through keyboard-based inputs, minimizing reliance on mouse interactions.

Technical Skills: Python, PowerShell scripting, Automation

Datacenter Support Specialist, May 2021

- Successfully brought down 300 support cases in a month. Learned the Munis ERP tech-stack in a month.
- SQL database administrator for all SaaS Tyler clients covering the whole United States.
- In charge of SQL data extraction, transformation, and loading (ETL), performing backups and refreshes.

Technical Skills: IIS, SQL, Cisco ASA, VMware, Windows Enterprise & Active Directory.

F5 NETWORKS, Seattle

Software Engineer Intern, Oct 2019 – June 2020

- Built a Quality Pain Index (QPI) model; The model ranks bugs based on severity to the specific version of the internal F5 tool. This was done by mapping Bugzilla logs and hardware data.
- Developed an in-house string-matching algorithm with Term Frequency-Inverse Document Frequency methodology**.**
- Developed a repository model for the QPI model to funnel and store pre-processed data to a PostgreSQL Database.

Technical Skills: Term Frequency-Inverse Document Frequency (tf-idf), Vector Space Modelling, Jira, and Bugzilla.

PROJECTS

- **Twitch.tv Streamer Bot,** leveraging LLM-based Speech Recognition and Neutral Text-to-Speech (NTTS) technologies. Utilized Twitch's REST API to process viewer comments and enable the bot to respond dynamically based on its baked-in personality, with persistent memory of past viewer interactions.
- **Fighting Game Bot,** trained a Machine Learning (ML) Resnet-based image classifier, to determine opponent proximity (close or far) using machine learning. Trained with 30,000 screenshots from personal gameplay, recorded using a Python open-source library 'inputs'. The ML model optimizes attack patterns based on learned personal tendencies.
- **Personal Online Portfolio,** A static website hosted on Amazon Web Services (AWS). Using Ruby's Jekyll releasing a stylish and scalable online resume.
- **ML Python Project,** tested multiple machine learning theories to design an optimal predictive algorithm achieving 98% accuracy in predicting closing prices. Utilized Alpha Vantage API for dataset acquisition and Python Neural Network library for model development.
- **Serverless Guestbook**, personal project deploying Docker containers to break a simple monolithic guestbook into microservices. Applying Serverless app development to improve, CI/CD for developer workflow, and scalability.

TECHNICAL SKILLS

Machine Learning: YOLOv8, Resnet, faster_whisper, OpenAI, AzureAI Speech, LLM, Jupyter, Google Colab
Tools: GitHub, CircleCI, Kubernetes, Red Hat OpenShift, Linux, PostgreSQL, PyCharm, VS Code, Visual Studio, IntelliJ
DevOps: IBM cloud (Functions, Cloud Object Storage, API), AWS (S3, EC2, Lambda)
Languages: Python, C++, C#, Java, SQL, Bash, Ruby
Library/Framework: Pandas, Junit, FastAI, NumPy, Matplotlib, SciPy, TensorFlow / PyTorch, Scikit-learn

EDUCATION

Bachelor of Science in Computer Science, Seattle University *December 2020*

LICENSES & CERTIFICATES

Application Development using Microservices and Serverless - *IBM*
Introduction to Containers w/ Docker, Kubernetes & OpenShift - *IBM*
Continuous Integration (CI) workflow in CIrcleCI - *Coursera*
Containers w/ Docker, Kubernetes & OpenShift - *Coursera*
AWS S3 Basics - *Coursera*