Matthew Brian Darmadi

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PROFESSIONAL EXPERIENCE

TYLER TECHNOLOGIES, Seattle
IT Technician 2 / Software Developer, November 2021- Present
- Leveraging WinRM and PowerShell, updated frequent manual processes into remote automated tasks via python:
  - Remotely reboots uptime-sensitive services, 50% quicker over manual input.
  - Archives and organizes important customer generated forms and data into archive folders.
  - Automated SSL certificate renewal across multiple servers; shrinking a 40 technician-hour work into an hour
- Reworked technical documents replacing legacy manual procedures with my remote solutions; enhancing workflow efficiency for a team of 15 technicians.
  Technical Skills: Python, PowerShell scripting, Automation

IT Technician / Database Admin, May 2021 – November 2021
- SQL database administrator for all SaaS Tyler clients across the United States; Average 300 cases closed a month.
- SQL data extraction, transformation, and loading (ETL), performing backups and refreshes for clients.
Technical Skills: IIS, SQL, Cisco ASA, VMware, Windows Enterprise & Active Directory.

F5 NETWORKS, Seattle
Software Developer Intern, Oct 2019 – June 2020
- Built a Quality Pain Index (QPI) model; The model ranks bugs by severity, it is trained off internal Bugzilla logs
- 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: Python, PostgreSQL, Vector Space Modelling, Jira, and Bugzilla.

PROJECTS

- **Twitch.tv Streamer Bot,** leveraged LLM-based Speech Recognition and Neural Text-to-Speech (NTTS) technologies. Using Twitch's REST API the Streamer Bot can respond in real-time to viewer comments, based off its custom personality and voice thanks to AzureAI Speech. Video Example: *github.com/bridyboo/JanaiBot*
- **Fighting Game Bot,** trained a Machine Learning (ML) Resnet-based image classifier, to determine opponent proximity; Trained with 30,000+ screenshots from personal gameplay. Implemented a frame-perfect input reader for the ML model to "play" like me. Video Example: *github.com/bridyboo/UmimiTekkenBot*
- **Personal Online Portfolio,** A static website hosted on Amazon Web Services (AWS). Using Ruby's Jekyll releasing a stylish and scalable online resume. *www.bridyboo.com*
- **Highly Available Forum on AWS**, hosted a production-ready Go based site integrated with PostgreSQL on AWS LightSail VPS. It has a CI/CD pipeline through GitHub Actions, enabling automatic rolling deployments for seamless, zero-downtime updates. Secured with industry standard HTTPS, while Docker orchestrates three instances for high availability and load balancing. github.com/bridyboo/ProdGoGuestbook | *www.nondeterministic.xyz*

TECHNICAL SKILLS

Machine Learning: YOLOv8, Resnet, faster_whisper, OpenAI, AzureAI Speech, LLM, Jupyter, Google Colab
Tools: GitHub, Linux, PostgreSQL, PyCharm, VS Code, Visual Studio, IntelliJ
Cloud Platform: IBM cloud (Functions, Cloud Object Storage, API), AWS (S3, EC2, Lambda, LightSail, Route53)
DevOps: CircleCI, Docker, Kubernetes, OpenShift
Languages: Python, C++, C#, Java, SQL, Bash, Ruby, Go
Library/Framework: Pandas, Junit, FastAI, NumPy, Matplotlib, SciPy, TensorFlow, PyTorch, Scikit-learn

EDUCATION

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