John Karabudak

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WORK EXPERIENCE

Software Developer at WSP Environment & Infrastructure   May 2017 - Current

- Spearheaded our efforts to pay down technical debt efforts, decreasing our after-hours pages by over 50%.

- Optimized our weather portal performance, increasing our Google PageSpeed Insights score by 100%.

- Redesigned our data ingestion pipeline, achieving a 2000% improvement in processing times and reducing ingester EC2 instance costs by 70%.

- Achieved over 10% savings in our group's AWS bill by using a combination of EC2 spot instances, AWS S3 Glacier Deep Archive, AWS Lambda, AWS VPC Endpoints, and other technologies.

- Championed the transformation of our operational security, introducing pivotal changes. This included a complete overhaul of all AWS permissions, removal of local administrative privileges from non-technical staff, and cultural changes promoting security as a priority.

- Orchestrated all technical aspects of the group's COVID-19 business continuity plan, ensuring uninterrupted operations during the pandemic.

- Known as a key crisis responder, adept at innovating immediate solutions in emergencies. Famously restored production operations within hours, even during AWS outages.

- Managed all technical and interpersonal aspects of a sophisticated meteorological system with hundreds of servers during a crucial inter-company carveout, while simultaneously automating most of the meteorologist onboarding and migration processes to be more efficient and secure.

PROJECTS

PySarra ⧉ https://github.com/JohnTheNerd/PySarra
A Python client for Environment Canada's MQTT-based Sarracenia service that is designed to be easy to use.

serial2mqtt ⧉ https://github.com/JohnTheNerd/serial2mqtt
A Python microservice that streams LDJSON (Line-Delimited JSON) data from a serial port to a given MQTT broker.

simple-gluster-ansible ⧉ https://github.com/JohnTheNerd/simple-gluster-ansible
An Ansible playbook to install and configure GlusterFS that is designed to be simple, with TLS encryption pre-configured.

tarsnap-cron-docker ⧉ https://github.com/JohnTheNerd/tarsnap-cron-docker
A Docker container image that uses Tarsnap to periodically and automatically back up your data.

TurtleTale ⧉ https://johnthenerd.com/?turtletale
A browser-based 2D platformer about a young turtle, complete with a level editor, an in-game shop, and toggleable cheats.

WOLRelay ⧉ https://github.com/JohnTheNerd/WOLRelay
A Python Wake-on-LAN forwarder that is able to listen for ARP reply packets to track IP addresses without any agent process running on the target machine.

EDUCATION

Bachelor of Science (Computer Science) at Memorial University of Newfoundland   2014 - 2020