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Summary

- Designing and managing large scale cloud deployments which are monolithic, containerized or micro-service based.
- Upgrading existing cloud solutions for better reliability and cost effectiveness.
- BackEnd development using popular languages and deployment into cloud solutions
- Debugging obscure problems on unfamiliar servers using Athena, DataDog and Cloudwatch.

Skills

- AWS
- Python
- IoT
- Terraform/Cloudformation
- CICD/Jenkins/Chef
- NodeJS
- React (basic)
- Java, Golang
- Tableau/Kibana
- Azure/GCP (familiarity)
- RDS/DynamoDB (familiarity)

REDspace (2020-2023)

- Worked with several clients implementing and managing various cloud stacks of different types.
- Created reusable Terraform modules for company wide use.
- Implemented proof of concept web-socket server for integration with Roku Smart TVs.
- **Sony**
 - Site Reliability Engineer (SRE) for over a 100 individual websites.
 - Upgraded AWS stack for better scalability and security which greatly reduced monthly bills.
 - On call support and implementing Cloudwatch alarms for 24/7 monitoring.
 - Built and redesigned CI/CD pipeline using Jenkins, Ansible and Chef.
 - Working closely with clients to solve business problems encountered with the current cloud implementations.
 - Utilized Cloudwatch to create alarms for 24/7 monitoring of server conditions.
- **IWK**
 - Managed and deployed infrastructure for multi-Wordpress application using docker and Cloudformation.

- Used open source tooling (chatGPT and Github Copilot) to speed up the process, and write better functional tests.
- Worked with a team of 4 developers to introduce better code quality testing.
- **Sesame**
 - Designed and implemented containerized Drupal and Wordpress applications.
 - implemented IaC with Cloudformation to bring up AWS resources (VPC, RDS, ECS, S3, Lambda).
 - Responsible for maintain dev and production environments, and working with other devs on new implementations/aws services as needed.
 - Mentor and aid team members on industry best practices for cloud.

Perennia (2019-2020)

- Designing cloud architecture for IoT devices spanning several wireless protocols.
- BackEnd development for data transformation of sensor data into something that's more useful for clients.
- Designed a complete weather station using off the shelf but certified components.
- **DevOps**
 - Created a standardized architecture for LoRaWAN, WiFi, Cellular and Bluetooth devices to connect to AWS IoT Core via onsite Gateways, Routers and integration with carrier servers.
 - Utilized IoT Core tools and Kinesis Firehose to streamline the flow of data from all sources.
- **BackEnd Development**
 - Studied manufacturer documentation to design data transformation processes for sensors of all types into something that can be presented on the dashboard.

GreyLit (2019 summer internship)

- Created BackEnd system for Natural Language Processing using AWS tools.
- Used prototyping tools to create a mock-up version of the finalized website which was used to present the project to potential investors and stakeholders.

Certifications and Education

- Certified AWS Developer Associate (2022)
- Msc. In Computing and Data Analytics at Saint Mary's University. (2018-2020)
- Bsc. In Electrical and Electronic Engineering at BRAC University. (2013-2017)

Projects

- Google Maps based website to generate random search results for when I can't decide where to eat.
- Data Analytics project on housing in NS involving data scraping with Python.
- Portfolio website made using React.