Kshitij Dhara

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EDUCATION

Carnegie Mellon University, Heinz College, Pittsburgh, PA   August 2023 – December 2024
Master of Information Systems Management
Coursework: Cloud Computing, Distributed Systems, Database Management, Intermediate Statistics, Economic Analysis, Object Oriented Programming in Java, Organizational Design and Implementation, Business Writing, Accounting and Financial Analytics

Savitribai Phule Pune University, Pune, India   January 2018 - April 2022
Bachelor of Engineering in Electronics and Telecommunication
Honors in Data Science and Visualization
Coursework: Internet of Things, Artificial Intelligence, Machine Learning, System Programming and Operating Systems, Object Oriented Programming in C++ and Java, Information Theory Coding and Communication Networks, Business Management

SKILLS

- **Programming Languages**: C | C++ | Java | Python | Bash | Shell Scripting | YAML
- **Tools**: Ansible, Google Cloud Platform, Amazon Web Services, Microsoft Azure, Jenkins, Kubernetes, Nomad, Docker, Puppet, Nagios, Grafana, Git, Firebase, Vagrant, Backend Services, Linux Administration, MySQL, NoSQL, RabbitMQ, Linux Ricing
- **Certifications**: Associate Cloud Engineer - Google Cloud, Azure Fundamentals AZ-900 - Microsoft Azure

WORK EXPERIENCE

Systems Engineer, ACI Worldwide, Pune, Maharashtra India   July 2022 - July 2023
- **Monitored** and **efficiently** addressed alerts in both **PCI** and **Non-PCI** environments for ACI projects, ensuring **low latency**, **minimal replication lag**, and **uninterrupted high availability**
- **Configured** and **managed RabbitMQ** for ACI projects, streamlining message handling and communication
- **Spearheaded** the **packaging** and **configuration** of **Python** scripts and modules, enhancing project development and deployment
- **Optimized** automation scripts and integrated automation and CI/CD tools, **elevating task efficiency** and **resilience**

DevOps Engineer Intern, Intangles Labs LTD, Pune, India   September 2021 - March 2022
- **Designed** and **implemented** an in-house deployment architecture, reducing reliance on managed cloud services and significantly **decreasing** overall **operational costs**, showcasing innovative problem-solving skills and cost-consciousness.
- **Spearheaded** repository management and **automated** the setup of development-test-production environments by creating custom docker images, providing crucial **OS** and **hardware independence**, thus laying a robust foundation for **streamlined development workflows**.

Cloud Engineer Intern, Quixote Automotive Technologies, Ahmedabad, India   May 2021 - September 2021
- **Designed** and **developed** the backend for a new version of their application utilizing **cloud-based database servers** and API designing techniques, pivotal in **modernizing** the company's infrastructure and enabling **scalable**, **cloud-native applications**.
- **Orchestrated** the deployment of cloud-based applications on the AWS platform through **automation pipelines** and **scripts**, ensuring seamless and efficient deployments, thus contributing significantly to the company's digital transformation efforts.

PROJECTS

Last Mile Delivery   September 2021 - March 2022
International Research Journal of Engineering and Technology (IRJET) | Volume: 09 Issue: 05 | May 2022
- **Spearheaded** the development of an **open-source**, **plugin-based route optimization algorithm**, adeptly blending the **Traveling Salesperson** and **Vehicle Routing Problems**. Designed to prioritize **speed** and **efficiency**, the algorithm dynamically accounts for real-time factors such as accidents, traffic, vehicle availability, and fuel consumption, significantly **reducing delivery time** and **distance travelled** for a fleet of vehicles.

Project Sahayata   March 2021 - May 2021
Google Cloud Code_Love_Hack Hackathon
[Python, Google Cloud Platform, Firestore, JavaScript, Kubernetes, Docker, Cloud CDN, Cloud DNS, and Cloud Firewall]
- **Conceptualized** and **developed** a two-tier platform **bridging the gap** between NGOs and volunteers, where the NGO tier enabled NGOs to list events, websites, and posters, while the Normal tier facilitated users in discovering NGOs by categories, volunteering, and making direct donations, showcasing innovative problem-solving skills and social responsibility

Inventory Management System   September 2021 - March 2022
[Python, JavaScript, Google Cloud Platform, and Firestore]
- **Developed** a scalable inventory management and billing system for warehouses and retail shops, utilizing **distributed systems** principles for **robustness** and **real-time synchronization** across multiple locations. Implemented advanced features including customer relationship management and invoicing capabilities, optimizing business processes across sectors

LEADERSHIP AND ACHIEVEMENTS

- **Winner of Challenge #3** in the Google Cloud {Code_Love_Hack} Hackathon.
- **Rank 51** in the Google Cloud Hero Challenge
- **6th** in National ABU-ROBOCON 2021 at IIT-DELHI as a Project Manager of the PICT Robotics Team
- **Project Guide** - Impetus and Concepts, PICT