ANIKET UDAYKUMAR

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EXPERIENCE

Software Engineer II - Infoblox   **Apr 2020 - July 2021**
- Developed DDI (DNS, DHCP, and IPAM) **RESTful microservices** for BloxOneDDI using **Golang** and deployed to **Amazon Web Services** (AWS) platform as **Docker** containers using **Kubernetes**, enabling customers to manage and configure their networks via a simple cloud-based dashboard
- Automated real-time monitoring and alerting dashboard (using **Prometheus** and **Grafana** toolkits) to identify and resolve failures during data synchronization processes between services
- Created a recycle bin feature by handling the moving of multiple **Postgres** database objects into a tombstone table. Allowing users to easily restore deleted objects without losing data
- Developed a Global Search feature for indexing DDI objects using **ElasticSearch**. Giving users quick access to DDI objects from anywhere on the cloud portal

Software Engineer I - Infoblox   **Aug 2018 - Mar 2020**
- Designed and developed end-to-end automated test strategies for **Network Identity Operating System** (NIOS). Increased regression test **automation coverage from 50% to 90%** and reduced time-to-market by 3 weeks
- Developed **Python** framework to automate the deployment of nightly builds to public (**Azure, AWS, GCP**) and private (**VMWare, Openstack, Nutanix**) cloud platforms
- Automated test cases using **Behaviour Driven Development** (BDD) framework and set up nightly **Continuous Integration** (CI) runs using **Jenkins** to ensure enabled early detection of faults in new builds
- Led an organization-wide training on the adoption of BDD framework for automation within the Infoblox ecosystem. **Recognized by the CTO** of Infoblox for initiating a forum to share knowledge across teams

Software Engineer Intern - Infoblox   **Jan 2018 - Jun 2018**
- Developed tool for real-time monitoring and analysis of performance and resiliency of environments running NIOS, using **ELKStack (Elasticsearch, Logstash, Kibana)**
- The tool managed and **parsed large scale log data** (15+ GB) to identify potential performance issues and raise alerts proactively

PROJECTS & PUBLICATIONS

Sign Language Translator Application - *Publication*
- Designed and developed an **application to translate** from American Sign Language to Indian Sign Language
- Split input video to a series of images and utilized **Scale-Invariant Feature Transform (SIFT)** algorithm to identify key feature maps of each image and translated the identified words/phrases to ISL
- Presented and Published the research in a paper titled "**Unidirectional Ensemble Recognition and Translation of Phrasal Sign Language from ASL to ISL**" at the 4th International Conference on Information and Communication Technology for Intelligent Systems - Springer, held in Ahmedabad, India in May 2020

Distributed Multiplayer Game
- Developed a **distributed peer-to-peer** multiplayer maze game. The game was built in **JAVA** and incorporated **server-side multithreading** to handle multiple concurrent player connections
- **Remote Procedure Calls** (RPC) allowed players to communicate and synchronize the game-state with each other
- The game was **fault-tolerant** and handled player crashes without affecting the other players in the game

EDUCATION

Academic Qualification	Year	Institute
Master of Computing (Computer Science Specialization) **CAP 4.33/5.0**	2021-2022	National University of Singapore
Bachelor of Technology (Computer Science) Graduated First Class with Distinction	2014-2018	PES University, India, Bangalore

TECHNICAL SKILLS

Programming Languages	Python , Go, Java, SQL
Technologies/Frameworks	Linux, Docker, Kubernetes, ElasticSearch (ELK Stack), Postgres, Kafka, JSON, XML
Cloud Services	AWS, Azure, GCP, OpenStack, VMWare
Development Tools	Git, Github, Jira, Jenkins, VScode

CO-CURRICULARS

Employee Engagement & CSR, Infoblox, India   **Aug 2018 - July 2021**
- **Led community-based CSR events** such as 2018 Fulfil-a-wish Campaign for underprivileged kids (100+) and Karnataka Flood Relief Drive (raised approx $4k USD)
- Organized **company wide employee engagement events**, such as 2019 Annual Family Day (250+ participants) and annual Cricket & Table Tennis Tournaments