Nithin Muraleedharan

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EXPERIENCE

Codility | Backend Developer 3   Oct 21 - Apr 23
Architected and Developed a new product for large scale technical assessments   *Berlin, Germany*
· Designed and developed multiple enterprise level micro-services(REST API) for CodeEvent, participating in the full SDLC, increasing monthly revenue by **20%** using **Go**, Python, Postgresql, DynamoDB and SQS
· Proposed and implemented a queue-based solution processing architecture, improving throughput by **70%**
· Collaborated with SRE team in implementing **Kubernetes** application architecture(cdk8s) and CI/CD pipelines
· Collaborated with data team in implementing data-lake (**AWS/Terraform**), MTTR reduced by **50%**
· Mentored 2 junior developers. Developed a framework for hiring and on-boarding within the team.
· Recommended for **promotion** within first year due to strong performance and organizational impact.
· **Tech Stack:** Gin, FastApi, SQS, Postgresql, DynamoDB, Grafana, Prometheus, Kibana, Sentry

Norton | Backend Developer 2   Feb 20 - Oct 21
Worked on Threat Analysis Grid, the file threat scanning backend service.   *Tettnang, Germany*
· Developed and integrated several Detection Modules (**Python**) which scales to serve **10k** requests per min
· Reviewed and refactored existing scan modules to improve scan speeds, generating a **25%** speedup.
· Implemented a new docker based CI/CD pipeline with AWS CodePipeline and **ECS** saving over **50k € pm**
· **Tech Stack:** Django, Redis, ElasticSearch, RabbitMq, Celery, Terraform, AWS

Oracle (Financial Services) | Application Developer 2   May 18 - Feb 20
Building a framework for automated information retrieval from Unstructured documents using deep learning   *India*
· Core developer of IIR framework which was presented by SVP of Oracle at Oracle Open World
· Deployed IIR backend in a micro-service architecture, developed in **Flask**, Java (Spring Boot)
· Developed a custom document layout normaliser algorithm based on DL and rule based system

NymbleUp | Founding Backend Developer   Aug 18 - Aug 19
*Developed a Machine Learning based **SaaS** Sales forecasting and analytics platform in Django*
· Designed and Implemented scalable system using **Django**, Redis and PostgreSQL(RDS),
· Developed a pipeline for testing, training and deploying Machine learning models
· Deployed the overall infrastructure in fully automated CI/CD pipeline utilizing **Kubernetes** and **AWS**

KEY PROJECTS

VoltSim | Android app with 40k+ downloads   Apr 22 - Ongoing
· Designed and developed an Android app that enables real-time visual simulation of electronic circuits.
· App leverages MVVM Architecture, is developed in **Java**, and uses Firebase/Firestore as back-end

Pygsheets | Open source library   Dec 17 - present
· Developed a python SDK for Google Sheets API, significantly reducing complexity
· Gained over **1.5K** GitHub stars and an active community of users and contributors

AI Game playing Agent | Open source project   Nov 16 - Dec 16
· Developed a generic game playing agent based on **Reinforcement Learning**, which trains on the game
· Implemented **Deep Q convolutional Network** in TensorFlow and tested on Flappy bird

EDUCATION

Masters and Bachelors in Electrical Engineering
Indian Institute Of Technology, Bombay   *2013 - 2018*

PUBLICATIONS

Keyboard Side Channel Attacks on Smartphones Using Sensor Fusion
et. al IEEE Global Communications Conference 2018   *2018*

TECHNICAL SKILLS

Languages & Frameworks	Python, Golang, Java, Kotlin, Android, Pytorch, Terraform, Rabbitmq, Salt, Airflow, SQL
Web Development	Django, FastApi, Flask, React, JavaScript, HTML, MySQL, Postgresql, Kubernetes, AWS, Kibana

EXTRA CURRICULAR HIGHLIGHTS

Social	• Volunteered as teacher for **underprivileged kids** under NGO Asha; tutor for Computer Literacy Program • Worked as **Teaching Assistant** for the course Data Analysis and Interpretation