RAHUL MAHANOT

SRE and a Linux Enthusiast

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SUMMARY

I'm a tireless problem solver and a Linux enthusiast who undertakes complex assignments, has acute drive to automate operational work and likes to address software issues creatively with a strong sense of ownership and urgency. I practice DevOps and apply strong technical skills to achieve business requirements in an expedite manner.

EXPERIENCE

Site Reliability Engineer, Media.net, Mumbai July '20 - Current

Engaged in designing, building and scaling reliable large scale infrastructure for ad-tech platform

- Worked on migrating team's single production server to a containerized multi deployment, multi microservice architecture on Kubernetes, improving reliability of the system, increased uptime SLA from 99 to 99.9% and improved avg. response times by 20%
- Collaborated with Database team to shift from enterprise software to open-source self-hosted databases for serving requirements, this reduced latency of critical queries by at least 20% and server cost drop by 50%.
- Offloaded parts of SRE workload to developers by writing flask applications, defining and documenting generic pipelines for monitoring, logging (EFK), Gitlab CI/CD and autoscaling of microservices.
- Added custom Lua support in Nginx Ingress to support smooth canary rollouts and A/B testing
- Engaged in troubleshooting varied performance related issues on Linux using basic tools.

Intern, Tata Consultancy Services Research and Innovation Labs, Kolkata May '19 – July '19

Conversion of a Tensorflow model to Core ML, Analyzing and Processing Visual and Audio data

- Wrote a generic pipeline to automate conversion of an Auto Encoder model written in Tensorflow to Core ML format
- Automated an end-to-end pipeline using GAN model for generating audio-synced video frames of facial movement

Research Intern, Indian Institute of Space Science and Technology Dec '18 – Jan '19

Abstractive Text Summarization using Neural Attention based sequence-to-sequence model

- Developed a model to generate concise summaries in less than 10 words for articles longer than 200 words
- Used DUC dataset and compared performance of character and word level models

Developer, Prajjawala Systems and Solutions Pvt. Ltd. May '18 – July '18

Edge-Computing and IoT based Automation and Optimization of Distributed Sensor Network

- Ideated and developed an MVP that enabled communication over IoT based LoRaWAN network and filed a patent.
- Project awarded by the NRDC, Govt of India as one of the top 5 innovative projects in India for the year 2018

Program Manager and Developer Intern, Vasitars Pvt. Ltd. May '17 – July '17

- Developed an employee attendance and information management portal

EDUCATION

Bachelor of Technology, Indian Institute of Technology Bhubaneswar, 2016-2020

PROJECTS

Container in Golang

- Built a container from scratch using basic Linux syscalls in golang
- Implemented container with its own PID namespace, filesystem and resource limits via cgroups

Smart India Hackathon – 2019

- Developed a novel framework for a web-app in PHP and MySQL that provides payment services and handles communication between an android app and the server in the backend

Chat Application using Sockets

- Developed a socket based chat app in python that allows users to chat with others in a group and share media files.

TECHNICAL SKILLS

- Programming Languages: Python, Bash, Go, Lua
- Tools and Frameworks: AWS, Docker, Nginx, Terraform, Jenkins, Git, Kubernetes, Prometheus
- Databases: Redis, MySQL

ACHIEVEMENTS

- Awarded the **National Budding Innovators Award** – 2018 conferred by the National Research Development Corporation(NRDC), Govt of India
- Won the **Tata Grand India IoT Innovation Challenge** (GIIOTIC) hosted by Tata Communications and Confederation of Indian Industry(CII) in 2019
- Received Smart Innovator Award by Prof. R V Raja Kumar, Honorable Director, IIT Bhubaneswar in Jan, 2019
- Received best business-plan presentation award at VGSoM, IIT Kharagpur in Feb, 2018

PATENT

Method of and apparatus for automation and optimization of LPG cylinder distribution system
Indian Patent Application Number: 201811018360, filed in 2018, Patent Pending.