

MOHITH RAJENDRA

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EDUCATION

University of Southern California

Master of Science - Computer Science (GPA 3.9)

Los Angeles, USA

Jan 2021-Dec 2022

R.V. College of Engineering

Bachelor of Technology - Computer Science & Engineering (CGPA 8.48/10)

Bengaluru, India

Aug 2013-Jun 2017

SKILLS

Programming Languages: Java, Python, C, C++, JavaScript

Databases: MySQL, PostgreSQL, SQLite, MongoDB, InfluxDB

Technologies: GCP, AWS, NLP, PyTorch, TensorFlow, Agile, Spring, Azure, Flask, REST APIs, Maven, Container, Docker, Kubernetes, Helm, Service Mesh, Istio, scikit-learn, Pandas, Terraform, EKS, Kafka

EXPERIENCE

Software Development Engineer 2 | VMware | Bengaluru, India

Jul 2018-Jan 2021

- Led a team to optimize and standardize production deployment code in by devising a deployment framework in Python resulting in a reduction of code by 84%.
- Designed *Self-healing* to classify root cause failures and act based on error category to heal continuous deployment flow using Bidirectional Encoder Representation from Transformers (BERT) in *PyTorch*, leading to a drop of on-call alerts by 32%.
- Developed data collections platform to collect productivity metrics on *MongoDB* ranging from code review time to time taken to prod bug fixes to analyze productivity and resolve bottle necks in development cycle of 3 organizations with 380 projects.
- Created a change management system Web Application to manage deployments of dependent services and code integration of all microservices to minimize SLA of bug fix by 50% with *Apache Kafka*.
- Constructed a self-serving UI platform for infra request of *Aurora*, *S3*, *RDS* and automated deployment of new services till production to eliminate code irregularities and save four person-hour/request.

Software Development Engineer - 1 | VMware | Bengaluru, India

Jul 2017-Jun 2018

- Created infrastructure for seamless CI/CD service on *AWS Kubernetes* to achieve push to production under SLA of 2 hours and lessen *Mean Time to Recovery* by 22%.
- Established a robust monitoring service of all microservices of product Cloudhealth leading to service availability to 99.99% built on *InfluxDB* with custom *telegraf* as agent.
- Implemented a service-mesh layer called Heimdall to manage inter-service traffic management for 68 microservices deployed on EKS cluster using *Ingress* for load balancing.

Software Development Intern | VMware | Bengaluru, India

Jan 2017-Jun 2017

- Developed Kubernetes plugin for vRCS supporting Kubernetes 1.5 and above later released as *open source* by VMware
- Initiated a code review practice to enforce linking Jira tickets with each changeset using slack bot to yield with 100+ users.

PROJECTS

Checkers Playing AI agent

- Implemented an agent based on AI algorithms of Searching and Minimax algorithm with Alpha-Beta pruning to play Checkers against any human or machine and maximize its expected utility.

AI City Challenge

- PyTorch YOLOv3 vehicle identification to eliminate manual classification of cars from mounted cameras using AWS SageMaker with mean average precision of 62%.

Opinion Mining

- Document level sentimental analysis on movie review comments of IMBD corpus with opinion prediction accuracy of 58%.

ACTIVITIES

- Published a paper under IJRTE (International Journal of Recent Technology and Engineering <https://www.ijrte.org/wp-content/uploads/papers/v8i5s/E10070285S20.pdf>)
- Mentored a boot-camp project at VMware for new graduates of 2019 and achieved best project.
- Organized LGBTQ+ pride march as core committee member of hospitality group at VMware in 2018.
- Initiated Plastic Detox Online drive in VMware to remove single used plastics in office space 140kg.
- Completed Deep Learning, NLP, Artificial Intelligence: Principles and Techniques courses under Stanford Center of Professional Development as part of graduate certificate.