Pavan Raga

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About Me

Highly skilled software engineer with more than 5 years of experience in software development and DevOps.
I'm seeking a Software Engineering position involving infrastructure systems or backend. I'm passionate about immutable, reliable, automated infrastructure that scales optimally with organizational needs.

Work Experience

Dyson   **Singapore**
Software Engineer - Intern   *Jan 2020 - Apr 2020*
- Developing an internal platform to detect the best suited object detection algorithm given a data-set.

WalletSocket - Cloud Team   **Singapore**
DevOps Engineer - PT   *Dec 2019 - Jan 2020*
- Assisted in design and architect of the Pay0k platform which is a payment gateway for merchants to accept various cryptocurrencies like bitcoin, ethereum.
- Responsible for developing and maintaining the CI/CD pipeline for both staging and production environments.
- Utilized Kubernetes extensively to orchestrate the life cycle of polyglot microservices. Followed best practices to develop manifests and integrating the same with continuous delivery.
- Handled increasing traffic load by scaling the backend services/container horizontally by using K8s HPA.

Cisco Systems Inc   **Bangalore, India**
Software Engineer II   *Apr 2018 - Jun 2019*
- Independently worked on "Cisco-Capture" tool to enhance the debuggability in live deployments by capturing control and data traffic.
- Moved monolothic application to configure routers to containerized application and deployed them in k8s cluster to provide fault tolerance.

Cisco Systems Inc   **Bangalore, India**
Software Engineer I   *Mar 2016 - May 2018*
- Developed Layer 2 features of ASR 903 series of service aggregation routers.
- Implemented "Dying Gasp" support to minimise down time during power outages.

AllGo Embedded Systems   **Bengalore, India**
Software Engineer   *Jul 2014 - Feb 2016*
- Part of Mirrorlink stack team, a stack which helps in replicating the smartphones display on to car's HMI/infotainment unit.
- Developed CI of software commits using Jenkins to enable fast delivery.
- Built a recovery module for HMI by detecting unhealthy application in the unit and respawning them.

Education

National University of Singapore (NUS)   **Singapore**
Master of Technology in Software Engineering   *Jun 2019 - Jul 2020*
- Architecting Cloud Native Scalable Systems, Securing Ubiquitous Systems and Engineering Big Data
- Developed pay0k platform for WalletSocket and deployed into production for south korea region in Jan 2020.

National Institute of Engineering (NIE)   **Mysuru, India**
Bachelor of Engineering in Computer Science   *Jun 2010 - Sep 2014*

Professional Certifications

- Certified Kubernetes Administrator (CKA) Issued by: Linux Foundation   **Feb 2020**
- AWS Certified Solutions Architect(ACSAA) Issued by: AWS   **Apr 2019**

Keywords

Languages: Python, C, YAML.
Infrastructure: Kubernetes, Docker, AWS, DigitalOcean
Tools: Jenkins, Ansible, Jira, Wireshark, VS Code