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](https://www.dyson.com.sg/) Singapore

*Software Engineer - Intern Jan 2020 - Apr 2020*

Developing an internal platform to detect the best suited object detection algorithm given a data-set.

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## [WalletSocket - Cloud Team](https://www.walletsocket.com/) 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.

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Responsible for developing and maintaining the CI/CD pipeline for both staging and production environ- ments.

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Utilized Kubernetes extensively to orchestrate the life cycle of polyglot microservices. Followed best practices to develop manifests and integrating the same with continuous delivery.

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Handled increasing traffic load by scaling the backend services/container horizontally by using K8s HPA.

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## [Cisco Systems Inc](http://www.cisco.com/) 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.

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Moved monolothic application to configure routers to containerized application and deployed them in k8s cluster to provide fault tolerance.

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## [Cisco Systems Inc](http://www.cisco.com/) Bangalore, India

*Software Engineer I Mar 2016 - May 2018*

Developed Layer 2 features of [ASR 903](https://www.cisco.com/c/en/us/support/routers/asr-903-router/model.html) series of service aggregation routers.

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Implemented ["Dying Gasp"](https://www.cisco.com/c/en/us/td/docs/routers/asr903/software/guide/chassis/xe%203s/b_Config_Guide_fullbook/b-cfg-dyg-gasp.html) support to minimise down time during power outages.

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## [AllGo Embedded Systems](https://www.allgosystems.com/) 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.

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* 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)](http://www.nus.edu.sg/) 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.

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## [National Institute of Engineering (NIE)](https://www.nie.ac.in/) Mysuru, India

*Bachelor of Engineering in Computer Science Jun 2010 - Sep 2014*

# Professional Certifications

* [Certified Kubernetes Administrator (CKA) Issued by: Linux Foundation](https://www.youracclaim.com/badges/ef62e195-5e7f-4990-aacf-3b77567e03a2) **Feb 2020**
* [AWS Certified Solutions Architect(ACSAA) Issued by: AWS](https://www.certmetrics.com/amazon/public/badge.aspx?i=1&t=c&d=2019-04-06&ci=AWS00799157) **Apr 2019**

# Keywords

**Languages:** Python, C, YAML.

**Infrastructure:** Kubernetes, Docker, AWS, DigitalOcean

**Tools:** Jenkins, Ansible, Jira, Wireshark, VS Code