

# Karan Pittie

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## EDUCATION

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- **Vellore Institute of Technology** Vellore, India  
*Bachelor of Technology - Computer Science; CGPA: 9.30*  
*Jun 2013 – May 2017*
- **FIITJEE Junior College** Hyderabad, India  
*SSC - Maths, Physics and Chemistry; Percentage: 91.5*  
*Jun 2011 – May 2013*
- **Gitanjali Senior School** Hyderabad, India  
*ICSE; Percentage: 88.1*  
*Jun 2010 – May 2011*

## EXPERIENCE

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- **Netskope** Bengaluru, India  
*Member of Technical Staff*  
*Jun 2017 - Present*
  - **Storage Security Scanning - AWS and Azure:** There are many platforms that provide Infrastructure as a Service. Worked on two such platforms namely, Amazon Web Services (AWS) and Azure. Major contribution was in developing a module capable of detecting any DLP / Malware sensitive content in a users S3 bucket or Blob Storage Account. This information would then be used to send out corresponding alerts and remediation steps to the user.
  - **Security Posture Analysis - AWS and Azure:** There are a few Security Standards that a users IaaS account must comply with for it to be considered safe. Worked on integrating standards like CIS and PCI-DSS for AWS and Azure. Contributed in developing a custom language that would enable end users to define their own security posture rules.
  - **Scalability and Performance - Docker:** In order to containerize the various components involved in our product, worked on making each of the component an independent service. Contributed in developing such services and re-factoring the ones that were tightly coupled with other services. Also, once these services were containerized, contributed in developing docker images / containers for the same.
  - **Log Monitoring and Analytics - Elastic Search, Log Stash, Kibana, Docker-Swarm:** As a part of an internal hack conducted by my company worked on getting an ELK stack up and running. The main purpose of this stack was to collect logs from all the servers in the farm, aggregate the data and present it to the user in the form user-friendly charts. Worked on docker swarm in order to scale this project to handle large volumes of data.
  - **Data Storage and Caching - Kafka, MongoDB and Redis:** MongoDB allows users to store data in the form of documents. Contributed in developing a wrapper which would help the parent module interact with Mongo. Made a major contribution in developing a Kafka consumer that would pick up messages lined up in Kafka queues when there is a synchronization problem between the consumer and producer. Contributed in developing a redis wrapper for caching keys. These keys would then be accessed frequently with low latency.
- **Netskope** Bengaluru, India  
*Intern*  
*Jan 2017 - Jun 2017*
  - **Audit / Activity Tracking - AWS, Azure, Egnyte and Onedrive:** Involved in developing a module capable of tracking activity that a user performs in their cloud application. Worked on applications like OneDrive, Egnyte, AWS and Azure. This module was able to track everything from the time the user logs in to his account to the time he logs out.
- **Doers Guild** Hyderabad, India  
*Intern*  
*Summer and Winter of 2015 and 2016*
  - **WebApp Automation:** Created a python based application that is capable of creating an end to end web application with just a few commands. This application would deliver an admin dashboard along with the required back-end database to the end user.
  - **Meal Delivery System:** Worked on developing a Meal Delivery / Tracking application that allows a user to order breakfast online. The user would then be able to track his order status. I also developed an admin dashboard for the same that would allow the admin to add vendors, items and catalogs.

## PROGRAMMING SKILLS

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- **Languages:** Python, C++, C, SQL, HTML, CSS, JavaScript
- **Databases:** MySQL, MongoDB, Redis, Kafka
- **Technologies:** Docker, Kubernetes, Ansible
- **Platforms:** AWS, Azure, Jenkins

## EXTRA CURRICULAR ACTIVITIES

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- **IEEE Computer Society - Vice President:** Elected as the Vice President of IEEE Computer Society Student Chapter in VIT University. Main focus was to manage the activities of chapter which mainly included conducting technical workshops and events.
- **Make a Difference - Volunteer:** Worked as a volunteer for Make a Difference organization. Main area was to educate the less fortunate kids in a nearby hermitage. Taught kids aged between 14-15 Mathematics, Science and English.

## PROJECTS

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- **WhatsApp ChatLog Prettifier - AngularJS, Python:** Developed an application that is capable of converting WhatsApp chat logs into user friendly images. The main use case of this project was to solve the general issue that a blogger faces while trying to showcase WhatsApp logs on their blogs.
- **IEEE Computer Society - Bootstrap, Python:** Worked on creating website for our Students' Chapter. The website had images of all the board member along with their contributions made for the overall progress of the chapter. Also developed analytics to identify the most successful events conducted by chapter.