

# Sankalp Gunturi

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## EDUCATION

- Carnegie Mellon University** Mountain View, CA  
*Master of Science in Software Engineering* Aug 2022 – Dec 2023  
*Courses:* Foundations of SW Engg, Decision Analysis & Engg Econ for SW Engineers, How to Write Fast Code
- K L University** Andhra Pradesh, India  
*Bachelor of Technology in Electrical & Electronics Engineering (Gold Medal Awardee)* June 2015 – May 2019  
*Courses:* C & Data Structures, Object Oriented Programming, Computer Org & Arch, Discrete Math

## SKILLS

- Languages & Frameworks:** Python, C, Bash, JavaScript, NodeJS, Express, HTML, CSS
- Platforms & Tools:** Linux, Jenkins, Git, MongoDB, VMware vSphere

## WORK EXPERIENCE

### Mindtree (A Larsen & Toubro Company)

- DevOps Engineer – Cisco DNA Center** Bengaluru, India  
*Bash · Linux · Git · Jenkins · vSphere* July 2021 – Jun 2022
  - Spearheaded the CICD workflow for Upgrade, 3-Node High Availability, Backup-Restore, Disaster Recovery scenarios, & reduced manual efforts by 50% by creating robust pipelines using Jenkins.
  - Defect detection in the CICD pipelines improved by 20% per integration window.
  - Volunteered to implement Docker-Containerization of 30% Jenkins nodes, resulting in increased reliability of CICD pipelines.
- Firmware Engineer – Cisco Nexus 7000/9000 Switches** Bengaluru, India  
*C · Python · Git · Switching · Networking* Oct 2019 – June 2021
  - Enhanced firmware by adding important interrupts to On-Board Failure Logging (OBFL) as a feature for drivers affecting across all the Nexus family of switches.
  - Debugged nearly 30 defects on stats manager and stats client anomalies.
  - Contributed to development of pyATS script using Python for automating test cases on switches.

## PROJECTS

- Emergency Social Network** Ongoing  
*Javascript · HTML · CSS · MongoDB · NodeJS · Express* Oct 2019 – June 2021
  - Collaborated with a team of 5, applied hybrid Agile practices like Scrum, Kanban and XP in a fast-paced environment.
  - Adopted MVC Architecture & Object-Oriented Analysis & Design to generate UML diagrams & VOPC for use cases.
  - Designed and implemented a clean UI/UX experience using CSS3, Bootstrap, Mustache and EJS.
- Optimization of the Knapsack Problem using Genetic Algorithm** Ongoing  
*C · Python · Git* Oct 2022 – Present
  - Adopted “Tournament Selection” method to compute the fitness function.
  - Optimization techniques include SIMD Vectorization, Parallelism, and Multi-threading.

## PUBLICATIONS

- IoT based Domestic Energy Monitoring Device (9 citations)** IEEE  
*3rd International Conference for Convergence in Technology* Apr 2018
  - Collaborated with Torrent Power R&D, identified opportunity to integrate IoT to enhance transparency in the system.
  - Designed and implemented a prototype circuit and Android App that shows kWh usage in time intervals.
- Published two academic papers in IEEE and IOP conferences on improving efficiency in Electric Vehicles charging.

## LEADERSHIP EXPERIENCE

- Event Coordinator, Google Developer Student Club** Mountain View, CA  
*Organized events & workshops with the Google Community impacting around 500 students* Oct 2022 – Present
- Student Leader, Carnegie Mellon ECE Graduate Organization** Mountain View, CA  
*Organized events & workshops across Pittsburgh & SV campuses impacting over 1000 students* Aug 2022 – Present

## HONORS AND AWARDS

- Secured **First Prize in Academic Excellence** for two consecutive years 2018 & 2019 in a cohort size over 9000.
- Elected twice as the **Treasurer for the IEEE Exec Committee**, KLU Chapter, Asia-Pacific.
- Hand-picked to coordinate **Launch of the first TEDxKLU**, on the theme “Emerge”: [ted.com/tedx/events/21092](https://ted.com/tedx/events/21092).