

# Sankalp Gunturi

Mountain View, CA  
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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 SUMMARY

- **Languages:** Python, C, Bash, JavaScript
- **Frameworks:** NodeJS, Express
- **Platforms & Tools:** Linux, Jenkins, Git, MongoDB, VMware vSphere
- **Soft Skills:** Leadership, Event Management, Public Speaking, Time Management

## WORK EXPERIENCE AT MINDTREE LTD. (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

- **Optimization of the Knapsack Problem using Genetic Algorithm (Ongoing):** Optimization techniques include SIMD vectorization, parallelism and multi-threading.
- **Chat Room (Full-Stack Dev):** Created login & register APIs to enter a single chat-room. The chats are stored/retrieved on-demand. Created using Vanilla JS, Node.JS, Express, Socket.IO & MongoDB: [youtu.be/BHYZyY44ts8](https://youtu.be/BHYZyY44ts8).
- **Emergency Social Network (Ongoing):** The app establishes communication with trapped people and volunteers. Shelter locations, Distress messages, Danger zones are featured. Created using Vanilla JS, Node.JS, Express, Socket.IO, JWT, JQuery & MongoDB.

## PUBLICATIONS

- Gunturi, S. K. S. Reddy, M. S. K. (2018, April). *IoT based Domestic Energy Monitoring Device*. 3rd International Conference for Convergence in Technology (I2CT)., (pp. 1-4), IEEE. (9 citations).
- Published two papers in IEEE and IOP conferences on Electric Vehicles.

## 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 Ex Comm**, 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).

## VOLUNTEER EXPERIENCE

- **Student Leader, Carnegie Mellon ECE Graduate Organization** Mountain View, CA  
*Organized events & workshops across Pittsburgh & SV campuses impacting over 1000 students* Aug 2022 – Present