

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 Economics for SW Engineers, How to Write Fast Code
- K L University** Andhra Pradesh, India
Bachelor of Technology in Electrical & Electronics Engineering (Gold Medal Awardee) Jun 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, Selenium, Java, REST, Groovy
- Platforms & Tools:** Linux (GNU), Jenkins, Git, MongoDB (NoSQL), VMware vSphere

WORK EXPERIENCE

Mindtree (A Larsen & Toubro Company)

- DevOps Engineer – Cisco DNA Center** Bengaluru, India
Bash · Linux · Git · Jenkins · vSphere Jul 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.
 - Implemented 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 · Network Protocols Oct 2019 – Jun 2021
 - Enhanced firmware by adding important interrupts to On-Board Failure Logging (OBFL) as a feature for drivers affecting across all the NXOS family of switches.
 - Debugged and peer-reviewed 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 (Full-Stack Development)** Ongoing
Javascript · HTML · CSS · MongoDB · NodeJS · Express Oct 2019 – Jun 2021
 - Collaborated with a team of 5, applied hybrid Agile practices like Scrum, Kanban and XP in a fast-paced environment.
 - Adopted MVC Architecture, RESTful APIs & Object-Oriented Analysis & Design to generate UML diagrams & VOPC for use cases.
 - Designed and implemented a clean and responsive UI/UX experience using CSS3, Bootstrap, Mustache and EJS.
- Optimization of the Knapsack Problem using Genetic Algorithm** Ongoing
C · Python · Git Oct 2022 – Present
 - Applied “Tournament Selection” method to compute the fitness function.
 - Optimization used for Crossover & Mutation functions: SIMD Vectorization, Parallelism, Process Scheduling & 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 & represented 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.