

EDUCATION

- **University of Colorado at Boulder** Boulder, CO
Master of Science in Computer Science; GPA: 3.79/4.0 *Aug. 2017 – (expected) May. 2019*
 - Coursework: Data Center Scale Computing, Advanced Algorithms, Distributed Systems, High Performance Scientific Computing, Natural Language Processing, Internet of Things, Algorithmic Human Robot Interaction
- **PES University** Bengaluru, India
Bachelor of Engineering in Computer Science; GPA: 8.44/10.0 *Aug. 2011 – July. 2015*
 - Coursework: Analysis and Design of Algorithms, Computer Networks, Operating Systems, Data Structures, Unix System Programming, Database systems.

SKILL SET

- **Languages and Libraries:** Python, C, Java, SQL, Java Script, scikit-learn, numpy, OpenMP, MPI, OpenCL
- **Other Tools and Frameworks:** Hadoop, Spark, Apache Kafka, AWS, Git, Unix, Raspberry Pi, Docker, Kubernetes, Serverless Computing, Cassandra, Flask, Jenkins

CURRENT RESEARCH

- **Drone Assisted car parking :** Simplifying car parking using drones. A drone captures a snapshot of the parking space, identifies empty spaces and guides a car to the empty parking spot.

PREVIOUS DIRECTED RESEARCH

- **Non Verbal expression for Robots (Advisor - Prof. Brad Hayes) :** Built a system to generate body language for robots
- **Byzantine Chain Replication (Advisor - Prof. Shivakant Mishra):** Architected and built a Byzantine Fault Tolerant system with $2f + 1$ replicas.

PROFESSIONAL EXPERIENCE

- **Visa Inc** United States
Software Developer Intern *May 2018 - August 2018*
 - **Next-gen Tech Products:** Spearheaded and developed an intelligent task assigning system(iTAS) using Drools rule engine in Java. Enhanced a gamification portal that is used to drive efficiency in Visa's Data Center.
- **Oracle** Bengaluru, India
Software Developer *Jun 2015 - Jul 2017*
 - **Diameter Signaling Router:** Developed DSR's Network Function and Orchestration feature using OpenStack. Fully integrated the feature with CI pipeline. Scaled down the DSR's deploy time from 1 week(manual) to an hour(automated).

SELECTED PROJECT WORK

- **Big Data - Shopping cart:** Product review analysis using Spark and MongoDB on Amazon Shopping cart dataset.
- **Intelligent Home Security:** Built a smart and intelligent home security system. Extensive usage of Raspberry PI to collect sensor data. Real time video monitoring and anomaly detection.
- **Parallel FFT :** Parallelized the FFT algorithm using OpenMP and MPI. Achieved multi fold improvements in speed.
- **Speedroid:** A crowd sourced android application to detect potholes and plot it on Google Maps.
- **HopIN:** Developed a carpooling software for the students at PES University. Designed and developed the driver rating and crediting system along with on the fly demand matching.

AWARDS & HONORS

- Best Innovative Idea award at Student Nokia Developer lab.
- Distinction award during all the semesters at PES University.
- Employee of the year award for delivering the code with quality on time.

LEADERSHIP AND OTHERS

- Student representative for CS department at PES Placement Cell.
- Graduate Teaching Assistant for Data Structures course. - Prepare materials, exercises and conduct recitation for nearly 100 students. Create quizzes. Make sure that students understand the concepts clearly and help them debug problems during office hours.