

EDUCATION

- **University at Buffalo(State University of New York)** Buffalo, NY
Master of Science in Computer Science and Engineering Aug. 2018 – May. 2020
 - Coursework: Analysis of algorithms, Computer vision and image processing, Operating systems, Distributed System, Database Systems, Malware Detection using static analysis
- **Sri Ramakrishna Engineering College** Coimbatore, India
Bachelor of Engineering in Computer Science and Engineering. Aug. 2013 – July. 2017

EXPERIENCE

- **Amazon Services Inc** Seattle, WA
Software Development Engineer Intern, Amazon Devices Summer 2019
 - **Vision and Machine Learning based Screening- (Computer Vision, Machine Learning):**
 - * Process return screening in warehouses with computer vision and machine learning.
 - * Design a scalable system to interact with the model and get predictions.
- **University at Buffalo** Buffalo, NY
Research Programmer - UB-ANC - Drones Lab Spring 2019
 - **Drones navigation system - EMANE Integration (EMANE, NS3, LXC Containers):**
 - * Modified UB's inhouse drone simulation to support AFRL's EMANE network simulator.
 - * Support integration with LXC containers that would facilitate Distributed simulation
- **Zoho Corporation** Chennai, IN
Member technical Staff - Zoho labs - Research and Development May 2017 - May 2018
 - **Cstore -FDW (Columnar storages ,OLAP systems):**
 - * Modified CITUSDB CStore FDW to accommodate in-memory caching, deletes and JIT executor.
 - * The JIT executor improved query performance by a factor of 8 - 10 on OLAP queries of 30 millions rows.
 - * Deployed Cstore system backing kafka/mysql across 30 clusters.
- **Zoho Corporation** Chennai, IN
Member Technical Staff Intern - Zoho labs - Research and Development Jan 2017 - Mar 2018
 - **In Memory Foreign Data Wrapper For PostgreSQL (Database Design, C with LLVM, codegen API):**
 - * Designed and implemented the storage engine and executor as a foreign data wrapper for postgresQL.
 - * Successfully implemented lock free indexing(BW tree) and write-ahead logging.
- **Sri Ramakrishna Engineering College - Centre For Innovation** Coimbatore, India
Undergraduate Research / Student Chairman Aug. 2015 – Dec. 2016
 - **Fleet Management System -(Android, AngularJS-2, Redis, Embedded C Programming):**
 - * Led a team of 4 people to Design and implement hardware and software for the fleet management system.
 - * Detect irregular driving patterns and approximate time of arrival for institutional vehicles.
 - * Proved its commercial viability - And was Implemented for 50 vehicles for SNR Trust.
 - **Industrial Data Logging (Arduino, Mysql, PHP):**
 - * A real-time system used to extract production data from CNC machines. It aided proper planning and execution of orders in micro industries.
 - * A pilot run of the project was executed in a padmabalaji spinners.
 - * Won the best mini project award for its commercial viability and worker ease of use.

INDEPENDENT PROJECTS

- **Health Fusion(Mean Stack, AWS)** September 2014 - June 2015
Project based on Adhaar for safe Handling of medical data and preventing drug abuse
- **Faculty Assessment(LAMP Stack, Android)** May 2014 - July 2014
Web Application for Faculty performance assessment based on student feedback

SKILLS AND INTEREST

- **Languages:** Proficient in C, C++, PostgreSQL Internals, familiar with Android, Java, Python, Javascript
- **Tools:** GIT, Kubernetes, Docker, Amazon web services, Linux, LAMP Stack

ACHIEVEMENTS

- Industrial Datalogging was awarded the best Project of the term.
- Awarded \$14000 by SNR Trust for 'Vehicle Tracking System' For R&D
- Health Fusion was awarded as Innovative project award by HR Cube with an award of Rs:50000