

## EDUCATION

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- **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

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- **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 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

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- **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

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

## ACHIEVEMENTS

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- 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