

# Arun Sai Krishnan

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## EDUCATION

**Carnegie Mellon University, School of Computer Science**  
MASTER OF SCIENCE, COMPUTER SCIENCE

Pittsburgh, PA  
DECEMBER 2017 (EXPECTED)

**National Institute of Technology, Tiruchirappalli**  
BACHELOR OF TECHNOLOGY, COMPUTER SCIENCE AND ENGINEERING (GPA: 9.22/10)

Tiruchirappalli, India  
May 2016

## EXPERIENCE

**University of British Columbia | MITACS GLOBALINK RESEARCH FELLOW**  
May 2015 – Aug 2015 | Vancouver, Canada

MENTOR: DR. VICTOR LEUNG

- Developed SAFeDJ: a mobile-cloud based context-aware music recommendation system, to promote safer driving and improve driver-performance through situation-aware music delivery.
- Reduced the average music mood-mapping time from 78s to 32s by eliminating computational bottlenecks through a context-aware system for offloading computation from mobile to cloud based on resource availability. [Link]
- Improved accuracy of the music mood-mapping process by 19% through a novel approach to include a driver's social-context in the music mood-mapping process. [Link]

**Indian Institute of Technology (IIT), Ropar | RESEARCH INTERN**  
May 2014 – July 2014 | Ropar, India

MENTOR: DR. JUNGHYUN JUN

- Conceptualized and implemented intuitive gesture based detection and clustering of smart objects using Doppler effect.
- Successfully detected and clustered smart-objects within a 2m radius.

**Teritree Technologies | SOFTWARE DEVELOPMENT INTERN**  
(Dec 2013 – Jan 2014) & (May 2013 – July 2013) | Bangalore, India

- Conceptualized, designed and developed a data agnostic dashboard visualization framework for flexible data visualization and rapid creation of e-commerce analytics dashboards. Published in ACM SIGSOFT Software Engineering Notes. [Link]
- Developed a social shopping application (Android) enabling a collaborative and community-curated approach to e-shopping.

**Delta Force (Computing Club, NIT Trichy) | TREASURER & APPLICATION DEVELOPER**  
Aug 2013 – May 2016 | Tiruchirappalli, India

- Developed mobile applications (Android) for university related activities and technological festivals.
- Founded special interest groups for mobile-cloud computing and Python.

## PUBLICATIONS

- A Novel Cloud-Based Crowd Sensing Approach to Context-Aware Music Mood-Mapping for Drivers. **IEEE CloudCom** 2015.
- Towards In Time Music Mood-Mapping for Drivers: A Novel Approach. **ACM MSWiM-DIVANet Symposium** 2015.
- A Data Agnostic Dashboard Visualization Framework For e-Commerce Data Analytics. **ACM-SIGSOFT SEN**, July 2014.

## COURSEWORK

### GRADUATE

Intro. to Computer Systems  
Distributed Systems \*  
Cloud Computing \*  
Algorithms \*  
(\* In Progress)

### UNDERGRADUATE

Operating Systems  
Computer Networks  
Distributed Computing  
Database Management Systems  
Artificial Intelligence  
Principles of Compiler Design

## PROGRAMMING

### PROFICIENT

Java • C • C++ • Android

### FAMILIAR

Python • Javascript • Assembly  
Shell • Django • MySQL  
MongoDB • Flask

## APPS - GOOGLE PLAY

SAFeDJ • Attendance Recorder  
Teritree • Pragyan'15  
Pragyan'14 • Festember'13

## AWARDS

- Mitacs Globalink Research Fellowship (2015)
- Merit scholarship - MHRD, Govt. of India (2012)
- KVPY Fellowship (2012)

## RESPONSIBILITIES

- Sub-reviewer, HPCC (IEEE - 2015)
- Treasurer, Delta Force (Computing Club of NIT Trichy)
- Marketing Manager, Festember (Cultural Fest of NIT Trichy)