

# Prashanth T.K.

+1-5197299365

✉ [prashanth.tk95@gmail.com](mailto:prashanth.tk95@gmail.com)

📄 [Linkedin:https://in.linkedin.com/in/prashanthtk](https://in.linkedin.com/in/prashanthtk)

Homepage :<https://prashanthtk.github.io>

## Summary of Qualifications

- Teaching Assistant, **Computer Science Department, University of Waterloo**. Currently a M.Math Co-Op CS student. *Skills: Effective communication & giving feedback*
- Intern, Cloud Platform Integration Team, **SAP Labs India**. 2017. *Skills: System development, Cross-Module Integration with OSGI, Working in an Agile environment*
- Intern (Technologist), **CCBD - Kratin Joint Research Internship** *Skills: Web, Mobile Platform, UX development, AWS-NodeJS*
- Junior Specialist (TargetZIKA), **Social Life Networks Lab, University of California Irvine. 2016**
- Research Intern, Knowledge Analytics and Ontological Engineering (KANOE)
- Summer Research Intern, Microsoft Innovation Lab. 2014

## Skills and Interests

- Big Data Analyst, Software Developer with experience in multiple platforms like **Web, Mobile, Cloud(SAP HANA)**. Skilled in Artificial Intelligence: Deep Learning, Cognitive Science, Computer Vision, NLP as evidenced by the research internships above. I am adept in data science and worked with many programming languages like JavaEE, C, python, Javascript, SQL & writing UNIX scripts. Also experienced in using APIs & frameworks like REST, OSGI, keras, Tensorflow, mongodb, NodeJS (Basics of Scala, Ruby etc.) I have also built stand-alone tools which I learned while developing software in the Cloud Integration Scrum Team at SAP.
- **Relevant Courses:** Applied Machine Learning, Advanced Data Structures, Algorithms, Empirical Software Evolution, Databases, Operating Systems, Web, Unix Systems Programming etc. I am also very passionate about designing cognitive intelligent systems using computational neuroscience research.

## Projects & Research Experience

### [IFlowDebugger. SAP Labs India](#)

- *SAP Cloud Platform Integration Team*

Built an independent tool for the SAP HANA Cloud Platform to efficiently debug integration flows in any enterprise scenario. The system used an OSGI based inter-process communication mechanism for integrating cross-dependencies in the modules. [Java, Maven, OSGI Framework, Apache Camel, Scrum dev experience]

### [SpoonSnap: Intelligent Food Logger. CCBD-Kratin Funded Project](#)

- *Cloud Computing and Big Data Lab*

Built an intelligent mobile food logging framework which uses CNNs for Deep Learning based food image analysis and recommendations. Worked in a team of 3 guided by Prof. Ramesh Jain (Bren Professor, UC Irvine). I also designed the back end flow for enhanced UX.

### TargetZIKA: Disaster Situation Detection and Risk Preparedness For ZIKA Virus. *Social Life Networks Lab, UC Irvine*

Created a Disaster Situation detecting framework using microreports and aggregate heterogeneous multimedia datastreams to combat ZIKA in Brazil. We also scripted end-to-end installation of Eventshop on Linux systems. I also built a web module for interactive real-time visualization of user activity [Matlab, Java, Javascript, Android, REST, Bootstrap (HTML,CSS), PHP, mongoDB, SQL]

### Swacch-Bharat Image Analysis. *Cloud Computing and Big Data Lab*

Developed an image analysis pipeline to estimate the metric volume of complex structured objects (garbage dumps), using AlexNet, Structure from Motion and 3D Reconstruction. This project is aimed at the Swacch Bharat campaign in India and published in ICVGIP'16. [Deep CNNs, Graphics, Web-Mobile, 3D Reconstruction, Urban Development]

### P-Comet. *Microsoft Innovation Lab*

A social networking platform used for the collaboration and discussion of academic projects, events and a student recruitment service for universities. I was the Chief back-end designer (constructing UX control flows) and Project Integrator in a team of 6 members. [Javascript, PHP, SQL, UI,UX Development]

## Publications ( Conferences and Journals)

- TargetZIKA: Disaster Situation Detection and Risk Preparedness For ZIKA Virus. U-Media 2017.
- Towards Quantifying the Amount of Uncollected Garbage through Image Analysis. ICVGIP 2016
- Real Time Video Content Based Contextual Advertisement. International Journal of Computer Science and Information Technologies, ACEIT-2016.

## Education:

- **Master of Mathematics, Computer Science, University of Waterloo**, Ontario, Canada. 2017 - present. CGPA 85.5
- **B.E. Computer Science & Engineering, PESIT (affiliated to VTU Belgaum)**, Bangalore, India. 2013-17 CGPA: 9.25

## Awards, Achievements and Hobbies

- Captain and Manager of both the PES University Football and Hockey Team.
- Volunteered at IYM India to teach basic science, uses of computers and technology to underprivileged children.
- I am quite experienced in Event Management and public speaking. In the past I have organized Hackathons and Workshops for Student Nokia Developer, Microsoft Innovation Labs and the Computer Science Department of PESIT and am the Core Organizer for 24 hour events like Ayana, HashCode, Incito etc. I was also recently felicitated for organizing the NASA Space Apps organized by SAP as an MC. I also hosted SAP's IXP Summit 2017 in Bangalore.
- Won the Samarpana India 10km Run - 2016 while competing with soldiers of the Indian Army. I am an athlete and play football and hockey at a professional level.