

# ACHYUDH RAM

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## EDUCATION

**University of Waterloo**, Ontario, Canada

**M.Math. (Thesis), Computer Science**, *Expected:* August 2020

- Affiliated to the Data Systems Group and the Software Architecture Group

**Birla Institute of Technology & Science**, Pilani, India

**B.E. (Hons.), Computer Science**, Graduated with *Distinction*

- *GPA: 9.71/10.0 and Major GPA: 9.73/10.0*

**M.Sc. (Hons.), Economics**, Graduated with *Distinction*

- *Major GPA: 10.0/10.0*

## EXPERIENCE

**Software Engineering Intern, Microsoft Research**

*May '18 – Aug '18*

- Worked on query optimization for COSMOS, Microsoft's production Big Data engine
- Performed static analysis on SCOPE queries and evaluated the analysis on production jobs

**Research Intern, University of Waterloo**

*Jan '18 – May '18*

- Worked with Prof. [Mei Nagappan](#) on the empirical modeling of sentiments in GitHub Pull Request discussions as a part of the [THEMIS.COG](#) project

**Research Intern, TU Delft**

*Aug '17 – Dec '17*

- Worked with Prof. [Alberto Bacchelli](#) on assessing the reviewability of code changes and automating the evaluation of GitHub Pull Requests

**Software Engineering Intern, Intuit**

*May '17 – Jul '17*

- Developed a data processing layer with parallel query evaluation for layout-based database retrieval and a report generation layer to provide performance insights for businesses
- Won HackAttack 2017 by building *Foresight*, an Android app that uses object detection and realtime databases to help the differently-abled navigate better

**Research Intern, Indian Bank**

*May '15 – Jul '15*

- Developed environment sensitive time-series forecasting models for setting business targets

## TEACHING

**Teaching Assistant, University of Waterloo**

*Sep '17 – Present*

- CS 135 - Designing Functional Programs

**Teaching Assistant, BITS Pilani**

*Jan '17 – May '17*

- BITS F312 - Neural Networks & Fuzzy Logic
- CS F211 - Data Structures & Algorithms

## SKILL SET

**Languages**

C, C++, Python, Java, JavaScript, BASH, SQL, HTML, CSS

**Frameworks**

Amazon Web Services, Google Cloud Platform, Firebase, Docker, Scikit-Learn, Numpy, Matplotlib, NLTK, Gensim, Keras, NetworkX, Flask, Scikit-Image, Chart.js

## PUBLICATIONS

**What Makes a Code Change Easier to Review? An Empirical Investigation on Code Change Reviewability** *2018*

*26th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering*

**Investigating Type Declaration Mismatches in Python** *2018*

*IEEE Workshop on Machine Learning Techniques for Software Quality Evaluation*

## TALKS

**Google Developer Group, Goa**

- Leveraging the power of Virtualization, Docker and the Cloud

*Apr '17*