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 Analytics Group
- *GPA: 3.76/4.0*

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

Software Engineering Intern, Intuit   *May '17 – Jul '17*
- Built a data processing engine with parallel query evaluation for layout-based database retrieval
- Developed a report generation layer that provides performance insights for businesses 300% faster than an existing internal solution

RESEARCH

Graduate Research Assistant, University of Waterloo   *Aug '18 – Present*
- Worked with Prof. Jimmy Lin from the Data Systems Group on building deep learning models for natual language processing tasks

Research Intern, University of Waterloo   *Jan '18 – May '18*
- Worked with the Software Analytics Group and the Computational Health Informatics Lab on hierarchical deep learning models for supervised sentiment analysis on software datasets

Research Intern, Delft University of Technology   *Aug '17 – Dec '17*
- Worked with the Software Engineering research group on assessing the reviewability and automating the quality evaluation of pull requests

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 '18 – Present*
- CS 116 - Introduction to Computer Science
- CS 135 - Designing Functional Programs

Teaching Assistant, BITS Pilani   *Jan '17 – May '17*
- CS F211 - Data Structures & Algorithms
- BITS F312 - Neural Networks & Fuzzy Logic

SKILL SET

Languages
Python, Java, C#, SQL, BASH, LaTeX

Frameworks
Hadoop, Spark, PyTorch, Keras, Scikit-Learn, Numpy, NLTK, Gensim, NetworkX, Flask

PUBLICATIONS

What Makes a Code Change Easier to Review? An Empirical Investigation on Code Change Reviewability
ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (2018)

Investigating Type Declaration Mismatches in Python
IEEE Workshop on Machine Learning Techniques for Software Quality Evaluation (2018)

TALKS

Google Developer Group, Goa, India
- Leveraging the power of Virtualization, Docker and the Cloud   *Apr '17*