

# Aneesh Raman

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## Education

### PHD – COMPUTER SCIENCE | PRESENT | BOSTON UNIVERSITY

- Advisor: Dr. Manos Athanassoulis

### MS – COMPUTER SCIENCE | JAN 2021 | BOSTON UNIVERSITY

- GPA: 3.7 out of 4.0

### BS – COMPUTER SCIENCE | MAY 2019 | PURDUE UNIVERSITY FORT WAYNE

- Specialization: Software Engineering; Minor: Mathematics; GPA: 3.97 out of 4.0
- Achievements: Graduated with Highest Distinction, Dean's List and Semester Honors List (all 4 years)

## Technical Skills & Abilities

### PROGRAMMING LANGUAGES, FRAMEWORKS AND CONCEPTS

- C, C++, Python, Java, Javascript, MEAN Stack, SQL (MySQL, Oracle and Postgres), MongoDB, Tensorflow, Keras, pyTorch, SpringBoot and Hibernate, Apache Spark, Machine Learning, Data Mining

### DEVELOPMENT METHODOLOGIES AND WORKFLOWS

- Agile (SCRUM), Test Driven Development, Continuous Integration/Continuous Development

## Experience

### GRADUATE TEACHING FELLOW | BOSTON UNIVERSITY | JAN 2020 – PRESENT

- TA/TF for CS131 – Spring 2020, Fall 2020; CS460 – Fall 2021; CS561 – Spring 2021, Spring 2022

### PROGRAMMER | BOSTON UNIVERSITY INFORMATION SERVICES & TECHNOLOGY | SEP 2019 – DEC 2019

- Developer with the BUWorks software development team

### TEACHING ASSISTANT | PURDUE UNIVERSITY FORT WAYNE | JAN 2017 – MAY 2019

- TA for CS260 - Data Structures, CS 232 - C & Unix, CS384 - Numerical Analysis

### SOFTWARE ENGINEER INTERN | OGHA RESEARCH LLP (INDIA) | MAY 2018 – AUG 2018

- Designed and Developed automated application framework for statistical comparisons of trades and latency.
- Implemented Full stack Web tool for displaying analytical and performance data

## Notable Projects

### INDEXING FOR NEAR-SORTED DATA (RESEARCH)

- Exploring sort-order characteristics in data streams with temporal and spatial locality to reduce insertion cost in tree-based index data structures.

### REDUCING HASH OVERHEAD IN BLOOM FILTERS (RESEARCH)

- Hashing is a CPU-intensive task while querying data from LSM-trees and presents a major bottleneck. The project aims to reduce the cost of hashing by sharing hash calculation and breaking up bloom filters into modules.
- Link to paper: <https://dl.acm.org/doi/10.1145/3465998.3466002>

### ACTIVE LEARNING IN MT WITH ERROR CLASSIFICATION (RESEARCH)

- Explore Active Learning approach in Transformer-based multi-layer multi-head architecture, examining linguistic information of representations obtained from the layers in parallel.

### AMAZON MARKETPLACE DATA PRESENTER (SENIOR CAPSTONE PROJECT)

- Developed (team) web tool for Redesigned Retail, Inc. using MEAN Stack, Amazon MWS API and AWS
- Program Director: Dr. Beomjin Kim, Project Advisor: Dr. Zesheng Chen (Purdue Fort Wayne)

### DATA TOOLS WEB APPLICATION (INTERNSHIP)

- Implemented Full stack web application for HFT Trading Result Analysis using Java Frameworks like Spring Boot, Hibernate and RESTful APIs with Angular.js as the front end to capture analytical data.