

# Hari Amoor

UNDERGRADUATE STUDENT · RUTGERS UNIVERSITY - NEW BRUNSWICK

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## Skills

<b>Languages</b>	Java, Python, Go, Rust, C/C++ Haskell, Clojure
<b>Data Solutions</b>	MySQL, MongoDB, gRPC, Apache Airflow, Apache Arrow, Apache Hive, Apache Spark, Apache Thrift
<b>Frameworks</b>	J2EE, Spring/Spring Boot, Hibernate, Play!, Grails

## Experience

### Facebook, Inc.

Menlo Park, CA

SOFTWARE ENGINEER INTERN

May 2019 - Aug. 2019

- Re-architected and added features to an internal pipeline of services used for error categorization over Facebook's suite of Android apps
- Reduced cases of misaggregation and over-aggregation under different categories by 31%
- Engineered an internal dataset of error categorization metadata used by oncall staff to triage the categorization pipeline
- Assisted in deploying ASAN-enabled versions of Facebook's Android apps and providing error categorization for crashes with actionable ASAN traces

### FTI Consulting, Inc.

McLean, VA

SOFTWARE DEVELOPMENT INTERN

Jun. 2017 - Aug. 2017

- Developed an custom internal service used to monitor the company's e-Discovery service pipeline
- Aassisted in the migration of a complex e-Discovery toolchain to the cloud
- Engineered ad-hoc data-analysis solutions to visualize document-processing results analyzed by engineering management

## Education

### Rutgers University - New Brunswick

Piscataway, NJ

B.S. IN COMPUTER SCIENCE AND MATHEMATICS

Sept. 2017 - PRESENT

- **Coursework - Computer Science:** Operating Systems, Computational Robotics, Design and Analysis of Algorithms, Formal Languages and Automata, Programming Languages & Compilers
- **Coursework - Mathematics:** Linear Algebra, Abstract Algebra, Real Analysis, Graph Theory, Finite Fields (audit), Combinatorics (audit)

## Leadership

### Undergraduate Student Alliance of Computer Scientists

Rutgers University - New Brunswick

PROJECT MANAGER CHAIR

Sept. 2018 - May 2019

- Supervised bimonthly USACS mini-hackathons - regularly sponsored events for novice and experienced developers alike to develop open-source software
- Manages collaboration on USACS open-source contributions and software written for nonprofits and humanitarian organizations

### HackRU R&D

Rutgers University - New Brunswick

SOFTWARE ARCHITECT

Sept. 2017 - May 2018

- Developed software for use by staff and hackers at HackRU - the biannual Rutgers hackathon
- Conducted in-hackathon workshops to help hackers learn about and utilize various open-source technologies

## Projects

### Noria

MIT PDOS Lab

OPEN-SOURCE CONTRIBUTION

PRESENT

- SQL-based data system that provides a fast storage backend for read-heavy backend web servies
- Uses dataflow analysis, a program optimization technique, at runtime to optimize high-velocity query requests

### Ludicrous Card System

Rutgers University - New Brunswick

HACKRU R&D

Oct. 2017

- REST-enabled Backend as a Service (BaaS) providing various API-based services and a persistent storage layer backed by a MongoDB cluster
- Utilized and maintained by HackRU, supporting over 800 end-users bi-annually