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Summary ____

I am an undergraduate student at Rutgers University, pursuing a B.S. in Computer Science and Mathematics. I am currently pursuing a role as an entry-level software engineer.

My area of interest in software is in backend and infrastructure-related products and processes. I love learning about different technologies, systems, and concepts in order to broaden my knowledge and perspectives as both a developer and an end-user of software. Therefore, I strive to pursue my academic interests in computer science, mostly in areas such as distributed systems, programming language theory, and network operations.

A lifelong student in more ways than one, I am also a hobbyist in theoretical computer science and abstract math; I particuarly enjoy learning about complexity theory, algebra, and combinatorics. I see it as my duty and my privilege to continuously pursue mastery of different bodies of knowledge and contribute to human advancement in all analytical pursuits.

Experience _____

MongoDB, Inc. New York, NY

SOFTWARE ENGINEER INTERN Jun. 2020 - Aug. 2020

- · Supported an effort across the Enterprise Tools department for improved MongoDB support for high-volume and high-complexity OLAP workloads
- Improved correctness and logging behavior of the MongoDB Database Tools a suite of command-line interfaces for database operations
- Spearheaded several tasks to achieve optimization of the Tools' performance characteristics, resulting in over a 25% improvement in runtime speed
- · Enabled a significant reduction in cases of undefined behavior across many of the department's products

Facebook, Inc. Menlo Park, CA

SOFTWARE ENGINEER INTERN May 2019 - Aug. 2019

- Engineered and maintained an end-to-end system to monitor application failures and expose a data warehouse of crash metadata for internal usage
- Designed and implemented a major refactoring of the categorization service for failures in native code on Android
- Improved server-side utilization of LLVM metadata, which is increasingly important for triaging Facebook mobile apps
- Enabled the reduction of cases of misaggregation and over-aggregation by the crash triaging pipeline by over 31%

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 Langauges and Automata, Programming Languages and Compilers
- Coursework Mathematics: Linear Algebra, Abstract Algebra, Real Analysis, Graph Theory, Finite Fields (audit), Combinatorics (audit)

Skills

Languages C++, Rust, Haskell, Idris, Go, Clojure, Python, JavaScript

Data Solutions

MongoDB, SQL Server, Apache Hive, Apache Thrift, Apache Kafka, ElasticSearch

Academic Areas of Interest Distributed Systems, Programming Languages/Compilers, Operating Systems, Computer Networks

Projects.

Redundant Services Optimization Solver

Rutgers University - New Brunswick

OPEN-SOURCE CONTRIBUTION

May 2020

- Simplified implementation of Dr. Uli Kremer's RSDG Algorithm for optimization of redundant services in a class of programming language theory problems
- · Utilized the Gurobi mathematical optimization solver to carry out a reduction of an NP-complete graph theory problem to a linear optimization problem

Tiny To-Do CLI (Tutorial)

Rutgers University - New Brunswick

OPEN-SOURCE CONTRIBUTION

May 2020

- Tutorial of the Rust programming language a command-line interface over a persistent to-do list CLI
- · Provided extensive aside system for further information and resources in understanding operating systems, programming languages theory, category theory, and homology type theory