

Nithi Kumar

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Experience

Technology Summer Analyst (Applications Developer) @ Morgan Stanley

Jun 2020 – Aug 2020 // New York City, NY

- ▶ Migrated trading desktop app to Angular web app, improving trader efficiency by 20%
- ▶ Streamlined Sybase access by implementing 8 Java APIs with advanced SQL queries to showcase relevant Securitized deal information, reducing query time by 20%

Systems and Applications Developer Intern @ Prudential

Jun 2019 – Aug 2019 // Roseland, NJ

- ▶ Worked with a team of 3 tech interns to deliver enhancements to the Employer Portal, improving customer utilization by over 50%, using Java and data analysis of over thousands of external-facing claims reports using VB and SQL
- ▶ Managed Agile/Scrum team of 3 as Scrum Master and achieved subject matter expertise in Cognos reporting

Research Assistant @ InfoSeeking Lab

Jan 2018 – Jan 2019 // New Brunswick, NJ

- ▶ Analyzed files of Python ML code with libraries such as NLTK, Pandas, and Beautiful Soup
- ▶ Built improved research tool, as requested by clients, by adding new APIs and system to track all user steps through research process into exported CSV with Python, Flask, Mongo dB
- ▶ Streamlined and tested different user scenarios with graduate team for better test results from 15% to 40%

Projects

Git Version Control System

- ▶ Collaborated with 1 engineer to implement a networked version control system with network protocols where the server maintained a repository of projects and the client committed and fetched updates to and from the server's repository
- ▶ Focused on building robust client-server architecture over TCP, supporting add, remove, create, and destroy functionality in C

Cache Simulation

- ▶ Developed a C command line program that reads a trace of memory accesses and simulates behavior of cache for that trace with CRUD operation, FIFO replacement policies, and calculates cache hits and misses

HDFS and MapReduce Simulation

- ▶ Collaborated with 1 engineer to simulate HDFS actions by implementing NameNode and DataNode APIs while using RMI for backend Client/Server communication
- ▶ Personal main focus was DataNode functions to write file contents into blocks and read block contents back to file
- ▶ Used MapReduce to calculate image impact on 1 Gb of Reddit data

Skills

Technical Languages

Java, C, Python, HTML, CSS, VB

Analytics & Frameworks

SQL Server, Hadoop, MapReduce, Matlab, Jekyll, Bootstrap, Flask, Mongo dB

Tools & Systems

Git, Windows OS, Linux OS

Education

Rutgers University New Brunswick

Grad Date: Jan 2021

Major: B.S. Computer Science

Minor: Business Administration

School of Arts and Sciences Honors Program

Dean's List: Fall 2017, Spring 2019, Fall 2019, Spring 2020

Honors: GHC Scholar 2020, RTC Virtual Summit Member 2020, Mentor and member of Douglass Residential College SAS DIMACS CS LLC

Relevant Courses: Data Structures, Algorithms, Computer Architecture, Systems Programming, Internet Technology, Distributed Systems

Activities

Community Outreach Director | WiCS

Managed CS Mentorship and Incentive Program in collaboration with 2 Rutgers tech clubs.

Organized Ladies in Tech Meetup with over 100 attendees.

Lead Percentage Project initiative at Rutgers; visual campaign that highlights microaggressions in tech fields, reaching 800+ people

Lead Ambassador | BUILT BY GIRLS

Recruit 50+ women to join BBG mentorship program, and represent BBG at 3 tech conferences

Hosted 5 monthly meetups with 20 attendees as safe space for women to discuss internships, and academics

Events Director | HackHers

Managed 30 day-of events and scheduling and organized 30 volunteers

Collaborated with 4 STEM clubs and companies to host 10 technical workshops

Marketing Organizer | HackRU

Responsible for posting creative content (stories and posts) for Instagram, Facebook and Medium, bringing in 500+ attendees