Akanksha Kumari

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EDUCATION

Georgia Institute of Technology   Atlanta, GA
Master of Science in Computer Science; GPA: 3.57/4.0   *Expected December 2019*

Relevant Coursework: Network Algorithmics, Compiler Design, Computability & Algorithms, Computer Networks, Network Security, Database Systems Concepts & Design

National Institute of Technology, Karnataka   Surathkal, India
Bachelor of Technology in Information Technology; GPA: 3.76/4.0 (9.40/10.0)   *Aug 2013 - May 2017*

SKILLS

- **Languages**: C++, Java, TypeScript, Python, HTML/CSS, C   **Technologies**: Azure, SQL, GitHub, Ionic, Neo4j, D3
- **Systems**: Database Management Systems, Network Security, LLVM, React, Software-Defined Networking

EXPERIENCE

Microsoft Corporation   Redmond, WA
Software Engineer Intern   *May 2019 - August 2019*

- **Azure Application Insights**: Designed and implemented of an extension to the Azure AppInsights Portal allowing users to efficiently monitor the health of their applications in real-time using live metrics .

Oracle India Development Centre   Bangalore, India
Member of Technical Staff   *June 2017 - July 2018*

- **Best of Kafka**: Worked on a high priority project to develop an Enterprise Messaging System for the latest release of Oracle Enterprise Database which involved learning and experimenting with Apache Kafka.
- **Regressions/bugs**: Obtained results for my work in the Advanced Queuing feature of the database; worked extensively with both classic and sharded queues.

RESEARCH EXPERIENCE

McGill University   Montreal, Canada
Summer Research Intern   *May 2016 - July 2016*

- **Integrating GINI with SDN**: Studied Software Defined Networking (SDN) in detail and made a literature survey report. Integrated the functionality of an SDN topology into GINI, a tool built by the Advanced Networking Research Lab to teach networking concepts to students at McGill University.
- **Map Integration in GINI**: Implemented new functionality in GINI to translate real life XML topologies taken from topology-zoo.org to simulation using Python

International Institute of Information Technology   Hyderabad, India
Summer Research Intern   *May 2015 - July 2015*

- **Smart Buildings-IoT with BLE**: Developed an Android application for Smart Homes/Offices using Bluetooth Low Energy (BLE) Protocol. Successful in delivering an app which connects to the BLE chip and can operate devices in the Bluetooth range through a handheld Android device.

PROJECTS

- **Travel Recommendation System using Geotagged Photos**: Publication
- **Parallelizing Alpha-Beta algorithm for Chess, Checkers and Tic-Tac-Toe**: Publication
- **IMAG-S**: Fast, approximate holistic relationship content-based image retrieval.
- **GATrecker**: Spatial alarm-based bus tracking system fro Georgia Tech shuttles.
- **Group Social Cybersecurity Study**: Aimed to discover how groups of socially connected individuals interact, behave, and affect each others security and privacy practices using a mixed methods study approach.
- **Accident Tracking System**: Secure system which would automatically keep track of who has been driving a car at all the time
- **Scatch**: An OpenGL based game, implemented on C++, that aims at utilizing the API for making objects, doing animation and adding lighting effects.

LEADERSHIP & ACHIEVEMENTS

- Joint Secretary in the Technical Fest (Engineer 2017) during undergraduate studies; one of the largest technical fest in India.
- SIGHT (Special Interest Group on Humanitarian Technologies) Chairperson in the IEEE NITK chapter during 2016-2017.
- Served in the Student Council during senior secondary studies as the School Head Girl (2012).
- MITACS Award for research at McGill University, Montreal.
- HUAWEI Scholarship for being among top 3 in a class of 102 during undergraduate studies.
- Runner-Up at Microsoft Code.Fun.Do Hackathon held in February-March 2016.