

# Taveesh Sharma

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## EDUCATION

- **University of Cape Town** Cape Town, South Africa  
*Master of Science - Computer Science*  
*Thesis title: Investigating Optimal Internet Data Collection in Low Resource Networks*  
*July 2020 - Present*
- **BITS Pilani** Goa, India  
*Bachelor of Engineering - Computer Science; GPA: 7.50*  
*August 2014 - August 2018*  
*Courses: Operating Systems, Data Structures and Algorithms, Design and Analysis Of Algorithms, Artificial Intelligence, Machine Learning, Computer Networks, Database Management Systems*

## SKILLS SUMMARY

- **Languages:** Java, Python, C, C++, JavaScript, SQL, Bash
- **Frameworks/Libraries:** Scikit, Pandas, NumPy, ReactJS, Spring Boot, Dropwizard
- **Tools:** Docker, Git, PostgreSQL, MySQL, MongoDB, InfluxDB, SQLite
- **Platforms:** Linux, Windows, Arduino, Raspberry Pi, AWS, GCP, Android

## EXPERIENCE

- **University of Cape Town** Cape Town, South Africa  
*Research Assistant (Part-time)*  
*July 2021 - Present*
  - **QoS to QoE correlation model:** Implementing a Machine Learning model to predict a user's security costs using metrics like page-load time, round-trip time and DNS response time for a given set of security configurations.
  - **Personal Security Configurator:** Development of an Android application that takes charge of a user's mobile phone security by implementing private DNS-based filtering and various SSL cipher suites.
- **EpayLater** Gurgaon, India  
*Software Engineer (Full-time)*  
*February 2020 - July 2020*
  - **Ordering app:** Took the ownership of building functionalities for an online ordering app for retailers.
  - **Products' Search Engine:** Developed a search engine for products in a large catalog of products belonging to different categories.
  - **Inventory Management System:** Wrote APIs for an inventory management system and added support for upload of catalog and inventory in bulk.
  - **Kiranamitra:** Extended the ordering app to facilitate the exchange of essential goods between small business owners and customers during the pandemic.
- **PayPal** Chennai, India  
*Software Engineer (Full-time)*  
*July 2018 - October 2019*
  - **FAST-R:** Wrote business critical functionalities to assist analysts in productionalizing fraud detection ML models.
  - **JIRA tool Integration:** Wrote APIs for integrating FAST-R tool with JIRA, an issue tracking tool which further helped in reducing the time to market (TTM) by 275 days.
  - **Point-in-time simulation of datasets:** Built a functionality to assist analysts in determining the impact of deployment of fraud detection models, had they been deployed in the past.

## PROJECTS

- **QoSMon:** (Work in progress) A quality of service monitoring system to be deployed in Ocean View community, Cape Town will help researchers study community networks in greater detail and assist network managers in identifying and troubleshooting anomalous behaviour. Tech: Java, Spring Boot, Python, Docker, Android Studio (July '20 - Present)
- **DataMon:** Built a service and mobile application to track the application data usage during the pandemic in smartphones of university students in South Africa. Tech: Java, Spring Boot, Python, Docker, Android Studio (July 2021)
- **Roburse:** Built a nursing and caretaking robot for the sick and elderly. Features like P2P video calling, remote navigation and medicine reminders were implemented. Tech: Arduino UNO, Android Studio, Java (May 2018)

## PUBLICATIONS

- **Poster:** Taveesh Sharma and Josiah Chavula. 2021. Investigating Measurement Scheduling Strategies in Low Resource Networks (Poster). In ACM SIGCAS Conference on Computing and Sustainable Societies (COMPASS) (COMPASS'21), June 28-July 2, 2021, Virtual Event, Australia. ACM, New York, NY, USA, 4 pages, to appear.

## HONORS AND AWARDS

- Awarded for Creative Thinking and Collaboration at PayPal
- 3rd place at PayPal RCGs Upload Hackathon

## VOLUNTEER EXPERIENCE

- **Intern at Indian Red Cross Society** Delhi, India  
*Assisted in development of a learning platform for Indian Red Cross staff and volunteers.* May 2016 - July 2016
- **PayPal Gives Hackathon** Chennai, India  
*Developed an ordering app for an initiative for providing livelihood to rural women.* January 2019 - March 2019