

SHRIYA KANERIYA

skaneri2@jhu.edu | <http://www.shriyakaneriya.com> | [LinkedIn](#) | [Github](#)

EDUCATION

Johns Hopkins University, Baltimore, MD

Expected Grad: May 2021

MS in Computer Science

Course Assistant: Automata and Computation Theory, Parallel Programming

JHU Sponsorship to attend Grace Hopper Celebration

Mentor: Women in Computer Science (WiCS)

Institute of Technology, Nirma University, Ahmedabad, India.

Graduated: May 2019

B.Tech in Computer Engineering

Lead at Women for Mozilla, Nirma.

RESEARCH AND INTERNSHIP EXPERIENCE

PayPal, Scottsdale, USA

Jun 2020 – Aug 2020

Software Engineering Intern, Site Reliability Engineering Team

- Identified a mathematical model to predict total Customer Interactions per hour on PayPal's site.
- Created an alerting system for significant drops in CI using Airflow and Teradata SQL.
- Communicated with cross-functional teams to solve issues on detection of 2 sensitive API drops.
- Decentralized an internal point system on Ethereum volunteering for Blockchain Research Group.

Indian Institute of Technology, Kharagpur, India

May 2018 – Jul 2018

Summer Research Intern

- Worked on Quorum Sensing based Molecular Communication for Target Tracking in [biosensors](#).
- Developed a target tracking model considering population of biosensors using Markov Models.

Indian Institute of Technology, Gandhinagar, India

May 2017 – Jul 2017

Summer Research Intern

- Worked with Gujarat Police on a Crowd Analysis project for an event involving over 10,000 people.
- Developed an algorithm in Python to include size and density of a crowd under highly dense scenarios.
- Built a frontend application using HTML, CSS and JavaScript to display crowd movements.

PROJECTS

Hybrid Clouds | Kubernetes, Docker, Python

- Identifying a spill-over for compute and storage during peak demands from private to public clouds.
- Implementing a pay-on-need policy to public cloud providers while maximising private cloud usage.

Flow Size Estimation | Python, GCP, PySpark

- Trained FeedForward NN, Gradient Boosted Decision trees and Random Forest models to estimate flow size given the features for a task(KMeans, Pagerank , SGD).
- Compared model performance on various scheduling algorithms (FIFO, SJF, Aging).

Time Travel | Java, React JS, HTML, CSS, MySQL, PHP

- Designed a Java based application that syncs with user's GMail account to fetch, parse and understand emails about travel plans. Emails with bookings are aggregated to create a customized itinerary.
- Identified discrepancies in an itinerary and displayed it along with the travel plans on Google Maps.

SKILLS

Languages: Java, Python, HTML, CSS, JavaScript, MySQL, React JS, PHP, C, Solidity

Frameworks and Tools: Apache Airflow, Postman, GitHub, Teradata, Hadoop, Spark

Cloud & OS: Google Cloud Platform, Amazon Web Services, Heroku, Linux, Windows, Kubernetes

SELECTED PUBLICATIONS

Co-author on a total of [11 publications](#), listing a few below.

- [TILAA: Tactile Internet-based Ambient Assisted Living in Fog Environment](#), Future Generation Computer Systems, Elsevier (Impact Factor:4.639).
- [Standardizing the use of Duplex Channels in 5G-WiFi Networking for Ambient Assisted Living](#), 2019 IEEE International Conference on Communications Workshops [BEST PAPER AWARD].
- [Data Consumption-Aware Load Forecasting Scheme for Smart Grid Systems](#), 2018 IEEE Globecom Workshops, Abu Dhabi, United Arab Emirates.
- [A Range-Based Approach for Long-Term Forecast of Weather Using Probabilistic Markov Model](#), 2018 IEEE International Conference on Communications Workshops.