SANATAN SHRIVASTAVA

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# Education

## The University of Texas at Dallas – MS in Computer Science (MSCS) (*Expected Aug. 2024)*

* **Research Interests**: Distributed Systems, Algorithms, Serverless computing
* **Coursework**: Algorithm Analysis and Data Structures, Database Design, Operating Systems Concepts

## Indian Institute of Information Technology, Kota – B. Tech (Comp. Sci. & Engineering) (*Aug. 2018 – Aug. 2022)*

* GPA 8.69/10; **Topped** with a GPA of **9.28** last semester
* **Coursework**: Data Structures & Algorithms, Database Management Systems (DBMS), Operating Systems
* Conducted research in a variety of domains – Blockchain, Distributed Systems, Artificial Intelligence of Things
* Was offered a Full-Time position by **Samsung SDS India** in their Overseas Group (American Region)

# Technical Skills

* **Languages:** Java; C++, SQL; JavaScript; HTML5, CSS3, Python
* **Software:** Visual Studio Code, Google Cloud Platform, GitHub, AWS, Canva

# Internship Experience

**Samsung SDS (Data Systems) India**, Overseas Team (American Region), Gurugram, India (*Feb ‐ June 2022)*

* Ensured enhancement in the cross-team software performance by designing programs in Core Java
* Designed modular programs using microservices that improved the customer experience considerably
* Obtained a **Pre‐Placement Offer (PPO)** for the Full-Time position as a Software Development Engineer (SDE)

**On the Go Car Wash (OTG)**, Engineering div, Jaipur, India. (*Nov 2020 ‐ Jan 2021)*

* Programmed dynamic and interactive website alongside an administration portal that ensured increment in customers, bookings & orders, and User Experience, resulting in a 70% increase in sales revenue.
* Fixed bugs on the flutter application and implemented enhancements that maximized app functionality and booking significantly. Was provided with an opportunity to work on another project on AWS and Azure.

# Research Publications

* Priyanka Mishra, **Sanatan Shrivastava**, IoT based automated Wheelchair for Physically Challenged, Materials Today: Proceedings, Volume 56, Part 1, 2022, Pages 533-541, ISSN 2214-7853, available at <https://www.sciencedirect.com/science/article/pii/S221478532200760X>
* **Shrivastava, S.**, Sharma, A. (2022). Distributed Ledger Technology (DLT) and Byzantine Fault Tolerance in Blockchain. Lecture Notes in Networks and Systems (LNNS), vol 425. Springer, Singapore. Available at <https://doi.org/10.1007/978-981-19-0707-4_86>
* Mishra P., **Shrivastava S.** Cloud AIoT based Smart Wheelchair using Module for Social Distancing, Temperature Monitoring, and Oximeter Module. International Journal of Information Technology (IJIT) Vol. 7 No. 5 [DOAJ] Available at <http://ijitjournal.org/volume-7/issue-5/IJIT-V7I5P6.pdf>

# Major Projects

## Research Project: Early & Automated Diagnosis of Dysgraphia using Machine Learning *(Jan ‐ Dec 2021)*

* Developed a platform using Airtable API(s) that led to a 40% increase in the dataset ingestion of samples
* Assessed **three** ML techniques – **SVM, Random Forest** and **AdaBoost** on more than 600+ user profiles
* Saved cost by 30% incurred due to cloud storage; Model could predict and classify if a user had Dysgraphia

**Research Project: Automated Wheelchair for physically challenged using AIoT.** *(Aug 2020 - Oct 2021)*

* Evaluated the scope of using Artificial Intelligence of Things (AIoT) for minimizing the manual support
* Researched the viability of the EERG headset for the Robotic Arm movement using Brain-Computer Interface