SANATAN SHRIVASTAVA

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EDUCATION

Master of Science in **Computer Science** *Expected May 2024*
The University of Texas at Dallas Richardson, TX
Coursework: Algorithms, Data Structures, Distributed Systems

Bachelor of Technology in **Computer Science and Engineering (CSE)** *Aug. 2018 – Aug. 2022*
Indian Institute of Information Technology, Kota Jaipur, India
Coursework: Data Structures & Algorithms, OS, DBMS **GPA : 8.69/10.0**

SKILLS

Language: Java, C++, SQL, Javascript, HTML5, CSS3, Python
Software: Visual Studio Code, Google Cloud, Github, AWS, Canva

INTERNSHIP EXPERIENCE

Samsung SDS India, Gurugram, India *(Feb. – June 2022)*
Software Engineering Intern, Overseas Team (American Region)

- 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 Employment as a Software Development Engineer (SDE-I)

On-The-Go (OTG) Car Wash Services, Jaipur, India *(Nov. 2020 – Jan 2021)*
Web Developer Intern, Engineering Division

- Programmed dynamic and interactive website alongside an administration portal that ensured increment in customers, bookings and orders, and User Experience, resulting in a 70% increase in sales revenue.
- Fixed bugs on the flutter application and implemented enhancements that maximized the overall app functionality.

National Institute of Technology, Jaipur, Jaipur, India *(Nov. 2018 – Feb. 2019)*
Full Stack Web Developer Intern, Development Team NIT Jaipur

- Deployed an interactive website of annual fest for event registration resulting in 70% increase in the revenue.
- Improved web performance and reduced the page load Time by 25% using browser-caching, asset optimization.
- The project led to a total reduction in the cost by 300% as compared to the cost incurred in the previous year.

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. **[SCOPUS]**
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. **[SCOPUS]**
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. 2021 – Dec. 2021)*

- Developed a platform using Airtable API(s) that led to a 40% increase in the dataset ingestion of user 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.

Automated Wheelchair for physically challenged using AIoT *(Aug. 2020 – Oct. 2021)*

- Researched the viability of the EERG headset for the robotic arm movement using Brain-Computer Interface.
- Evaluated the scope of using Artificial Intelligence of Things (AIoT) for minimizing the manual human support.