

# DIVIJ SANJANWALA

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## Technical Skills

**Programming Languages:** TypeScript, Javascript, Python, SQL, Java, C, AppScript, Java, Git, R

**Technologies/Frameworks:** AWS, ElasticSearch, GCP (Firestore, PubSub, Compute Engine), Vue.js, React.js, Node.js, Docker, Zapier, ReTool, Google APIs (Spreadsheets API), Django, MongoDB, Express, Looker Studio, Version Control, Ajax

**Relevant Coursework:** Algorithm Design and Data Structures, Deep Learning, Neural Networks, & Probabilistic Machine Learning, Multivariate Calculus, Linear Algebra, & Systems Programming (C)

## Professional Experience

**Agentnoon (YC W22), Toronto** [↗](#) | Node.js, Vue.js, Google APIs, GCP, PubSub **October 2022 – March 2023**  
*Software Engineer* Toronto, Ontario

- Led Analytics Engine to elevate platform experience by Integrating customer APIs within **24-48 hours** of feedback/acquisition.
- Designed a Real-time Internal Dashboard App to track internal KPIs and achieve week-on-week Sales Pipeline targets.
- Developed UI elements and Deployed cloud functions to automate HRIS integrations and improve user navigation time by **~50%**.

**Cedience, Toronto** [↗](#) | ElasticSearch, AWS (ECS, DynamoDB, S3), Docker, Postman **December 2021 – January 2023**  
*Software Engineer* Toronto, Ontario

- Automated data-pipeline through AWS Job Instances to **reduce redundant efforts** of manually running workload by **90%**.
- Enabled intelligent searches on customer-requested sources by extraction and predictions of data-tags and filters from raw data.
- Designed scripts to query and bulk update entries in Foresight platform index to **increase accuracy** to **90-95%**.

**ReSTORE Lab** [↗](#) | React.js, MongoDB, Express, Agile Development **September 2021 – July 2022**  
*Full Stack Engineer - Temerty Faculty of Medicine @ University of Toronto & UHN* Toronto, Ontario

- Designed a mobile-compatible web-app & a complementary interface to enable non-programmers dynamically update the web-app.
- Decreased web-app load times by **80%** via compressing and optimizing image loading API calls to refine the end-user experience.
- Catered to additional request-based features and pages for the web-app to meet the constantly changing needs in marketing.

**Project Lead - The LockedDown Project** [↗](#) | TensorFlow, HuggingFace **May 2021 – August 2021**  
*Full Stack Engineer - Temerty Faculty of Medicine @ University of Toronto & UHN* Toronto, Ontario

- Leveraged ML to save **40+** hours of work and financial resources by avoiding manual text-classification.
- Fine tuned BERT Model (NLP) to perform sentiment analysis on **2500+** lockdown survey responses spanning 4 languages.

## Publications and Projects

**What Do Graph Convolutional Neural Networks Learn?** [↗](#) | PyTorch, TorchVision, numPy **January 2021 - May 2021**  
• The paper explores how the GCN's learning of node-embeddings and performance in SSNC depends heavily on underlying node-neighbourhood graph structures using **homophily** as one of the metrics. <https://doi.org/10.48550/arXiv.2207.01839> [↗](#)

**University of Toronto - On-call Engineer** [↗](#) | React.js, PostgreSQL, Data-Extraction **May 2023 - Present**  
• Designed & Developed MVP for research proposals in equitable research/fieldwork placements in Occupational Therapy.  
• Optimized scripts to scrape, classify, & extract entities by integrating XHR network-call scraping to reduce running time by **~20%**

**Toronto Fitness Club** [↗](#) | React.js, Django, JWT, MapsAPI **September 2022 - December 2022**  
• Designed User Stories and its REST API endpoints to handle bookings, scheduling, and subscriptions to a club membership.  
• Developed database architecture optimizations to reduce tangled queries and response times by **~20%**.

**Tech-Conference Software** [↗](#) | Java, Object-Oriented Design **January 2020 - April 2020**  
• Designed a Tech-Conference Software implementation to help organise the event using messaging, enrolment, user creation/deletion, and organizational hierarchy features (Design Patterns, Fundamentals of Clean Software Architecture, and SOLID principles).

**Complex GeoSpatial Models** [↗](#) | R (INLA, sf, tmap, raster, tidyverse, ggplot2) **March 2022 - April 2022**  
• Designed tools to map Spatial Data structures by manipulating vector and raster data-forms.  
• Explored Spatial auto-correlation between neighbouring counties using Besag-York-Mollié to predict the SIDS in North Carolina.  
• Investigated Gaussian Random Fields to predict spatially continuous variable of Malaria prevalence in Gaussian Random Field.

## Education

**University of Toronto, St. George**

*Honours BSc. Computer Science, Statistics, and Economics*

- UofT International Scholar Award (2019-2022), **COVID-19 Student Engagement Grant Winner 2021 (\$3000)** [↗](#)