

Sidharth Praveenkumar

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EDUCATION

Singapore University of Technology and Design

Singapore

- Bachelor of Engineering, Honours (Information Systems Technology and Design)
- Intended Specialization: Artificial Intelligence
- Expected Date of Graduation: September 2021

May '18 to present

Global Indian International School (GIIS)

Singapore

- Achieved 96.2% aggregate for Grade 12(A level equivalent)

Aug'13 to Mar'18

WORK EXPERIENCE

Singapore Airlines

Singapore

Digital Innovation Intern

May'19 to Aug'19

- Lead developer of a web view application for Android and iOS that uses Google's Cloud Vision API for detect text from images. This included developing a classification algorithm using **NLP** to extract relevant fields of the subject. Back-end and requests were handled using **Node.js**.
- Presented prototype to business units and achieved a 99% success rate among the test data. Implemented prototype using **Agile** Framework; prototype was approved and handed over to senior developers for deployment.

Datarama

Singapore

Data Science Intern

Dec'20 to Jan'20

- Researched and modified a **BERT** model for text summarization to enhance the accuracy of the previously implemented model. Achieved an aggregated accuracy of 93% through testing of 100 news articles, spanning through English, French, Bahasa and Chinese.
- Built a web crawler using **Selenium** and **BeautifulSoup** that extracts news articles and feeds them into the model to gain the corresponding article summaries.

ACADEMIC RESEARCH AND PROJECTS

Undergraduate Research and Opportunities Programme (UROP)

Singapore

Machine Learning and AI for Fabrication Design

Sept'18 to Jan'19

- Used Machine Learning to learn the relationship between mechanical/functional behaviour and a fully discretized set of parameters (e.g., **voxelization**) of a microstructure.
- Used the ML model for efficient simulation and design optimization of large-scale lattice structures. Supported in developing a **VoxNet CNN** using a pretrained classification dataset (ShapeNet-40).

Information Systems and Programming Project

Singapore

BLink

Jan'18 to Mar'18

- Spearheaded a team of five other members to develop an events solution Android Application that leverages on computer vision for facial recognition for attendance taking. Allows users to view other attendees at an event and get connected to them using facial detection of all entities on the image.
- Built on native **Android** with Google **Firestore** as database, **OpenCV** for Facial Detection and a **Node.js** server to handle the OpenCV scripts as well as middleware to the database.
- Awarded 3rd Prize(\$1000) by Mitsubishi among a faculty of 150+ students.

AWARDS AND ACCOMPLISHMENTS

NUS HackNRoll Hackathon

Singapore

Top 5 Winning Team

Jan'19

- Won Singapore's largest annual student led hackathon with an estimate turn up of 350 participants.
- Worked with a team of 4 to develop a convolutional neural network to classify facial emotions and a game to help actors enhance their emotions.
- Additionally, worked with the graphical front-end interface of the game, using **PyGame** and **TKinter** libraries.

CO CURRICULAR ACTIVITIES

Design Odyssey

Singapore

Student Mentor

Jan'19 to Mar'19

- Mentored secondary school students to guide them through 'The Schools Challenge', a social innovation competition. Taught design thinking methodologies as well as innovation cycles.

SUTD Student Government, ROOTS

Singapore

Director of Student Initiatives

July'18 to present

- Led a team of 15 members to organize the 2019 Open House event for SUTD.
- Represented multiple CCA Clubs and kept track of their budgets and expenses for the financial year and each pulse check.

ADDITIONAL INFORMATION

- Relevant Coursework – Linear Algebra, Data Structures and Algorithms, Object Oriented Programming and Computer Architecture.
- Proficient and well versed at Python, NodeJS, C++, Git and Java for Android Development