

Umang Gupta

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EDUCATION

Singapore University of Technology and Design

Singapore

Bachelor of Engineering in Computer Science and Design, Minor in Artificial Intelligence

Sept. 2020 – May 2024

GPA 4.6/5.0, SUTD Honors List

WORK EXPERIENCE

Researcher

Oct 2021 – Mar 2022

Singapore University of Technology and Design X Singapore Mentorship Committee

Singapore

- Researched on Network Design and Performance in Blockchain Networks and its impact on user and developer trust for decentralized applications
- Operated under professors from SUTD and mentor from MIT

PROJECTS

Dygnostic | *Ruby, JavaScript, HTML, React, GCP, ML, Pytorch, Tensorflow, Git*

May 2022 – Present

- Developing a web app to automate quality inspection of machines made by TSH Group
- Using AI to pass or fail certain machine components

VoiceBus | *Swift, IOS, Machine Learning, Git*

Dec 2021 – May 2022

- Developed a full-stack iOS bus information application for the visually impaired
- Applied machine learning to recognize and process speech, convert text to speech
- Succeeded as the only app to receive positive user feedback, and to publish the app on App store
- Winner of Swift Inclusive App Development Hackathon 2022

HawkerGO! | *Java, Android, Google Firebase, Git*

Feb 2022 – Apr 2022

- Developed a full stack Android application
- Single, centralised resource for users to view and review hawker stalls and hawkers centres in Singapore
- Recognized as top 10 Apps developed among over 200 students

CO-CURRICULAR ACTIVITIES

Software and Electronics Engineer

Feb 2021 – Present

Ringcomm

Singapore

- Contributed to software of smart watch replacing student ID card and bank card for payments
- Designed a Decryption NFC Reader that can read and decrypt MIFARE IDs
- Experimenting on NFC architecture to ensure robust short-range NFC reception with small antennas

Undergraduate Teaching Assistant

Jan. 2022 – Apr 2022

Singapore University of Technology and Design

Singapore

- Served as Teaching Assistant for Mathematics course Modelling Space and Systems
- Taught a cohort of 50 students and conducted consults outside office hours
- Succeeded as the cohort with the highest average score

AWARDS & ACCOMPLISHMENTS

The Jyoti and Aditya Mathur Environmental Award

SUTD

Organised first sustainability themed design thinking hackathon of SUTD

Mar 2022

IdeateSomething

SUTD Entrepreneurship

Won 1000 SGD for developing a concept app to quickly plan fun meetup with friends

Dec 2021

The Design and AI in the Data Driven World Challenge

SUTD X DBS

Won 500 SGD in pitching an AI powered credit card recommendation engine in Paylah App

Sept 2021

Best Prototype DRIVE Program by Design Odyssey

SUTD-MIT IDC

Developed a semi-automated hydroponics pod along with online control system

Mar 2021

TECHNICAL SKILLS

Languages: Assembly, Java, Python, Ruby, R, C/C++, SQL, JavaScript, HTML/CSS, React, JavaScript

Developer Tools: Git, Xcode, Android Studio, Google Cloud Platform, PyCharm, VS Code, Jupyter Notebook, Figma

Libraries: pandas, NumPy, Matplotlib