

# Umang Gupta

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## EDUCATION

### Singapore University of Technology and Design

*Bachelor of Engineering in Computer Science and Design, Minor in Artificial Intelligence*  
*GPA 4.6/5.0, SUTD Honors List*

Singapore

*Sept. 2020 – May 2024*

## 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, Postgresql, 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
- Conducting BDD and TDD while crafting and implementing REST API

### 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