

# Umang Gupta

+65 93790540 | [umanggupta1103@gmail.com](mailto:umanggupta1103@gmail.com) | [linkedin.com/in/umangguptacs](https://www.linkedin.com/in/umangguptacs) | [github.com/Usgupta](https://github.com/Usgupta)

## 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*

## EXPERIENCE

**Software and Electronics Engineer** Feb 2021 – Present  
*Ringcomm* Singapore

- Contributed to software of smart watch replacing Student ID and student 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

**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
- Worked under professors from SUTD and mentor from MIT

**Undergraduate Teaching Assistant** Jan. 2022 – Apr 2022  
*Singapore University of Technology and Design* Singapore

- Teaching Assistant for course Modelling Space and Systems 10.018
- Taught a cohort of 50 students and conducted consults outside office hours
- Cohort with the highest average score

## PROJECTS

**VoiceBus** | *Swift, IOS, Machine Learning* Dec 2021 – May 2022

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

**HawkerGO!** | *Java, Android, Git, Google Firebase* 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
- Top 10 Apps developed among over 200 students

**FDM5K** | *Alchitry, Lucid, FPGA, Git* Feb 2022 – Apr 2022

- Developed a hardware game inspired by Bishi-Bashi arcade game
- Top 5 games developed among over 200 students

## TECHNICAL SKILLS

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

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

**Libraries:** pandas, NumPy, Matplotlib

## AWARDS

**The Jyoti and Aditya Mathur Environmental Award** SUTD  
*Organised first sustainability themed design thinking hackathon of SUTD* Mar 2022

**IdeateSomething** SUTD  
*Won 1000 SGD for developing a concept app to plan meetup with friends efficiently and quickly* Mar 2022

**The Design and AI in the Data Driven World Challenge** 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