

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
- Worked under professors from SUTD and mentor from MIT

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

CO-CURRICULAR ACTIVITIES

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

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

AWARDS & ACCOMPLISHMENTS

IdeateSomething SUTD Entrepreneurship
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 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, 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