

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

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

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

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

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 a where 2 players compete against each other for the highest score by completing a series of matrix patterns shown to them with a series of LEDs arranged in a 4 by 4 matrix
- 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, Google Cloud Platform, VS Code, Visual Studio, PyCharm, IntelliJ, Android Studio, Jupyter Notebook
Libraries: pandas, NumPy, Matplotlib

AWARD

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