Umang Gupta

+65 93790540 | umanggupta1103@gmail.com | linkedin.com/in/umangguptacs | 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

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

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

FDM5K | *Alchitry, Lucid, FPGA, Git* — Feb 2022 – Apr 2022
- Developed a hardware game inspired by Bishi-Bashi arcade game
- Recognized as 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 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
Developer Tools: Git, Xcode, Android Studio, Google Cloud Platform, PyCharm, VS Code, Jupyter Notebook, Figma
Libraries: pandas, NumPy, Matplotlib