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
Frameworks: Flask, JUnit, WordPress, Material-UI
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*