

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 4.46/5.0, SUTD Honors List

Available full time from Jan 2023 - Sept 2023

WORK EXPERIENCE

Researcher | *Solidarity, Blockchain*

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
- Recognized as the best research team among 5 others by finding most valued business opportunity while operating under professors from SUTD and mentor from MIT,

PROJECTS

Dygnostic | *Ruby on Rails, JavaScript, HTML, React, GCP, Postgresql, Python, Git*

May 2022 – Aug 2022

- Led a team of 6 and Developed web app automating TSH Group's machine inspection reducing time by 30%
- Utilised Cloud Vision to automatically analyze quality of label on the machine components
- Recognized as the most well architected for Implementing REST APIs and microservices,
- Followed BDD and TDD, succeeded as the most well tested software in 15 projects

Secure File Transfer | *Python, Cryptography, Git*

Jul 2022 – Aug 2022

- Implemented a secure file upload application from a client to a secure file server ensuring Confidentiality, Integrity, Authentication, Preventing Replay Attack
- Achieved to be the most secure file transfer program developed from scratch in a cohort of 250 students

Shell | *C, Git*

Jun 2022 – Jun 2022

- Created shell which can find files, change directory, show available commands
- Succeeded as the fastest coder to create shell in 12 hours among 250 students

VoiceBus | *Swift, IOS, Machine Learning, Git*

Dec 2021 – May 2022

- Led a team of 4 and Developed a full-stack iOS voice enabled bus information app 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

- Led a team of 6 and Developed a full stack Android application
- Single, centralised resource for users to view and review hawker stalls and hawkers centres in Singapore supporting local stores not available on Google Maps
- Recognized as top 10 Apps developed among over 200 students

FDM5K | *Alchitry, Lucid, FPGA, Git*

Feb 2022 – Apr 2022

- Led a team of 8 and 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 | *Altium, Soldering*

Feb 2021 – Jun 2022

SUTD Ringcomm Club

Singapore

- Contributed to software of smart watch replacing student access 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

AWARDS & ACCOMPLISHMENTS

The Jyoti and Aditya Mathur Environmental Award

SUTD

Received for organising first sustainability themed design thinking hackathon of SUTD with 200 applicants

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