

# 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*