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 useful isnights 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 architectured 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 – Present
SUTD Ringcomm Club   *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

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*