

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
GPA 4.46/5.0, SUTD Honors List

Sept. 2020 – May 2024

Relevant courses: Data Structures and Algorithms, Operating Systems, Concurrency, Database, Networks, Machine Learning, Artificial Intelligence, AISG Foundations in AI

Certification: (Pursuing) Google Machine Learning Engineer

WORK EXPERIENCE

Software Engineer Intern | *Kotlin, Java, Git, RxJava, Dagger, Android Studio*

Jan 2023 – May 2023

Grab

Singapore

- Reduced Grab Driver Android app debugging time by 45% with a custom TCP socket message logger.
- Boosted Grab Driver activity by 25% through complete Android app development of a targeted incentivization feature.

PROJECTS

Deepfake Audio Detection | *Python, PyTorch, SciPy, Signal Processing*

Apr 2023 – Present

- Leading a team of 8 to research and implement multiple audio deepfake detectors
- Working with Professors from SUTD and mentor from Singapore HTX

🔗 LectureGenie | *Python, Open AI, Da-vinci, Git*

Apr 2023 – Apr 2023

- Created an AI Telegram bot to convert youtube links and lecture videos to question and answers
- Uploaded the question answers to notion and shared custom link
- Created the telegram bot in 15 hours for AISG Penta Hack, secured top 10 position among over 30 teams

🔗 Dynostic | *Ruby on Rails, JS, HTML, Python, GCP, Postgresql, React, Cucumber, Rspec*

May 2022 – Aug 2022

- Led a team of 6 to develop a web app to automate TSH Group's machine inspection to attain 30% time reduction
- Utilised Cloud Vision to automatically analyze quality of label on the machine components
- Recognized as the best architecture for implementing REST APIs and microservices
- Followed BDD and TDD, succeeded as the best tested software in 15 projects by conducting unit and e2e testing

🔗 Shell | *C, Git*

Jun 2022 – Jun 2022

- Created shell to find files, change directory, count lines, check daemon processes and show available commands
- Succeeded as the fastest coder to create shell in 12 hours among 250 students with no crashes from auto-testing

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

Dec 2021 – May 2022

- Led a team of 4 under direct mentorship of Apple's Systems Engineer to develop a full-stack iOS voice enabled bus information app for the visually impaired
- Applied machine learning to create text-to-speech and speech recognition engines for the app
- 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, Junit, Git*

Feb 2022 – Apr 2022

- Led a team of 6 to develop a full stack Android application, to view and review hawker stalls and hawker centres in Singapore supporting local stores not available on Google Maps
- Ranked 4th among over 200 students for innovation and architecture of the app

🔗 FDM5K | *Alchitry, Lucid, FPGA, Git*

Feb 2022 – Apr 2022

- Led a team of 8 to develop a hardware game inspired by Bishi-Bashi arcade game
- Won 5th place among over 200 students for hardware quality, effectiveness of datapath, complexity of game

🔗 Who Wants to be a Millionaire | *C++, Git*

Sep 2019 – Oct 2019

- Developed an online version of "Who wants to be a millionaire" using C++
- Recognized as top 5 C++ projects among 150 students

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