

# UMANG GUPTA

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## EDUCATION

**Singapore University of Technology and Design** | *GPA 4.46/5.0, Honors List* Singapore  
*Bachelor of Engineering in Computer Science, Minor in Artificial Intelligence* Sept. 2020 – May 2024  
**Relevant courses:** Data Structures and Algorithms, Operating Systems, Concurrency, Database, Networks, Machine Learning, Artificial Intelligence, Introduction to High Performance Computing  
**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

🔗 **Dygnostic** | *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