

UMANG GUPTA

+65 93790540 | umanggupta1103@gmail.com | [linkedin.com/in/umangguptacs](https://www.linkedin.com/in/umangguptacs) | github.com/Usgupta

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
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
Availability: Part time (Sept 2023 - May 2024), Full time (May 2024 onwards)

WORK EXPERIENCE

Software Engineer Intern | *Kotlin, Java, Git, RxJava, Dagger, Android Studio* Jan 2023 – May 2023
Grab Singapore

- Created custom TCP socket message logger which reduced android app debugging time by 45%
- Creating and handling the complete android development of incentivizing drivers to be active at specific periods speculated to increase efficiency by 25%

PROJECTS

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

Rewards4U | *Python, AWS SageMaker, LambdaMART, Git* Jan 2023 – Jan 2023

- Developed a payment service recommendation engine with a Learning to Rank Algorithm (LTR) using AWS Sage Maker to compare and rank payment services for a specific product based on user and product data
- Used a LambdaMART loss function to optimise the ranking of payment services and penalise mistakes that cause relevant payment services to be ranked lower or less relevant payment services to be ranked higher
- Implemented an API utilising ML to provide a hassle-free way for users to compare and find the best payment service for each transaction, allowing them to get the maximum reward out of all the payment services and deals available

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

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

CO-CURRICULAR ACTIVITIES

Software and Electronics Engineer | *Altium, Soldering* Feb 2021 – Present
SUTD Ringcomm Club Singapore

- Created a smart watch software replacing student campus access card and payment bank card
- Designed a decryption NFC Reader that can read and decrypt MIFARE IDs to replace student campus card
- 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