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

Rewards4U | *Python, AWS SageMaker, LambdaMART, Git*   Jan 2023 – Jan 2023
- Created a data-driven payment service recommendation engine with AWS SageMaker and LTR algorithm
- Optimized payment service ranking with LambdaMART to prevent errors and improve relevance
- Developed an ML-powered API for seamless payment service comparison and maximum rewards.

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

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

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*