

UMANG GUPTA

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EDUCATION

Singapore University of Technology and Design | GPA 4.46/5.0, Honors List Sept. 2020 – May 2024
Bachelor of Engineering in Computer Science, Minor in Artificial Intelligence
Stanford University | International Honours Programme Jun 2023 – Aug 2023
Relevant courses: Data Structures and Algorithms, Operating Systems, Concurrency, Database, Networks, Machine Learning, Artificial Intelligence, High Performance Computing, Data Science
Certification: (Pursuing) Google Machine Learning Engineer

WORK EXPERIENCE

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

- Reduced Grab Driver Android app debugging time greatly with a custom TCP socket message logger
- Boosted Grab Driver activity through complete Android development of an incentivization feature.
- Participated in Grab-a-thon to increase Driver jobs by manipulating the matching algorithm to change filters after a period

PROJECTS

🔗 **Bytewallet** | NextJS, NodeJS, Vercel, Stripe, Postgresql Sept 2023 – Sept 2023

- Designed and implemented a robust user registration and authentication system, ensuring data security.
- Successfully integrated Stripe payment gateway for seamless user top-ups.
- Contributed to the development of peer-to-peer transaction functionality, enhancing user experience.
- Led the design and implementation of the transaction history feature for user transparency.

🔗 **RDTonUDP** | Python, Networking, TCP/UDP, Git Sep 2022 – Oct 2022

- Designed and implemented a congestion-controlled, pipelined RDT protocol over UDP, enabling secure text file transfer across unreliable networks.
- Achieved 0 crashes, tested on multiple different remote linux machines

🔗 **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/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 Apple Engineer to develop a full-stack IOS voice enabled bus info app for visually impaired
- Fine-tuned text-to-speech and speech recognition engine
- Succeeded as the only app to receive positive user feedback, and publish on App store
- Winner of Swift Inclusive App Development Hackathon 2022

AWARDS & ACCOMPLISHMENTS

The Jyoti and Aditya Mathur Environmental Award SUTD
Organised SUTD's first sustainability design thinking hackathon with SG Minister as Guest of Honor 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

REFERENCES

🔗 **Steve Jones** | Director, High Performance Computing Center (HPC) @ Stanford HPC Course Professor
🔗 **Gokul G** | Software Engineer Manager II @ Grab Manager
🔗 **Natalie Agus** | Senior lecturer @ ISTD, SUTD Core CS Professor