

CHIA YONG KANG

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EDUCATION

Singapore University of Technology and Design

- Bachelor of Engineering in Computer Science
- Science Technology Entrepreneurship Programme (STEP) Scholar, which is a tech entrepreneurship scholarship program for top 10% of the students.

WORK EXPERIENCE

Tech Co-Founder, MatchedIn

Jun 20 – Present

- Matchedin is a AI Mentoring Platform backed by prestigious investors such as SMU Venture Build and Enspire.VC
- Served as Team in building the Recommendation System and Backend Infrastructure.

Software Research Intern, DSO National Laboratories

Feb 20 - May 20

- DSO National Laboratories is the national defense research agency of Singapore.
- Led a new cybersecurity project to bolster Singapore's network security with Machine Learning.
- Researched and implemented techniques that Improved performance of Reverse Engineering by close to 40%.
- One of the few chosen interns invited to present research to the cross-functional cybersecurity teams.

Freelance Software Developer

Sept 18 – Sept 20

- Developed two Full Stack Web Development projects and one Android App.
- Developed new product recommender on an SME business(million) website which boosted conversion by 20%.

TECHNICAL SKILLS

Languages

Python • Java • Javascript • SQL • HTML • C++ • PHP

Libraries, Framework, and Tools

Flask • Django • Android • ReactJS • Flutter • MongoDB • Azure • Linux • Scikit-Learn • Tensorflow • Firebase • Git

AWARD-WINNING PROJECTS

Smart Grocery Management System (1st Place, Junction X Asia 2020)

June 20 — June 20

- Selected as the only team to represent Singapore out of 50 teams in the UN hackathon
- Utilized: Python, Flask, Flutter, MongoDB, OpenCV (YOLO), Azure

Smart Glasses for the Visually Impaired (1st Place, NUS Hack&Roll)

Jan 20 - Jan 20

- Emerged as champion out of 800 participants from all around the world.
- Developed glass for the visually impaired to “see” emotions with AI
- Utilized: Python, Raspberry Pi, Azure Cognitive Services

Automated Detection for Blindness Webapp (Winner, Lifehack 2020)

Aug 20 — Aug 20

- An app that allows people to upload an image of their eye and receive a diagnosis
- Emerged as winners against 300 of the brightest computer science students in Singapore.
- Reduced Diagnosis time by 70%, improved accuracy from humans by 10%
- Utilized: Python, Flask, Tensorflow, Keras, OpenCV

PERSONAL PROJECTS

Automated Protocol Reverse Engineering with NLP | Machine Learning for Automated Protocol Reverse Engineering

- Increased accuracy of Reverse Engineering by 40% with Genetic Algorithms and NLP
- Utilized: Python, Scikit Learn, Pandas, NLTK, Spacy

Augmented Reality App for Construction

- Developed an Augmented Reality App which reduced time spent on-site for Civil Engineers by 15%.
- Utilized: Java, Android, ARCore, PostgreSQL

ACHEIVEMENTS

- Winner for HacknRoll 2020 Hackathon • Winner for JunctionX Hackathon • Honorable Mentions LifeHack 2020
- Finalist and Winner of Environmental Grant from South-West CDC • Third for SUTD-CGH Challenge

CLUBS

Google Developer Student Club | Director of Technology Team

- A Student group that is committed to building a tech community and developing solutions for the community
- Led technical workshops on Git, Firebase, React and Linux.