# Ethan Wei Yuxin

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## EDUCATION

**National University of Singapore**                                                                **Aug 2022 – Dec 2025**
BComp in Computer Science (Honours) with Minor in Psychology                                            (Expected)
- GPA: 4.68 / 5.00 (Highest Distinction).
- Global Merit Scholar.
- AI and Machine Learning, Data Structures and Algorithms, Software Engineering, Programming Methodology, Databases, Networking, Data Science, Calculus, Linear Algebra, Project Management.

**NUS Overseas College | Southeast Asia Batch 6 | Ho Chi Minh City, Vietnam**          **May 2023 – Aug 2023**
- Delivered 2 high-impact software projects – reduced manual research time by 400% and built an internal AI RAG tool.

## INTERNSHIP & WORK EXPERIENCE

**Student Ambassador | NVIDIA Corporation**                                                       **Jan 2024 – Present**
- Supervised finetuning (SFT) of an LLM using NVIDIA NeMo framework for bio-science domain specific lay summarization.
- Developed a Retrieval Augmented Generation tool with Streamlit and Vector Databases.
- Will deliver 2 technical sharing workshops and support NVIDIA AI Technology Centre events as a teaching assistant.
- Tensorflow, Docker, Streamlit, Colab, LLMs, Transfer Learning, Deep Learning, LoRA (Low-Rank Adaptation).

**Investment Analyst Intern | Jumpstart Disruptive Innovation (JDI) | Ho Chi Minh City, Vietnam**     **May 2023 – Aug 2023**
- Developed an OCR and LLM integrated research bot with Python, prompt engineering and OpenAI API, boosting research efficiency by 400%, empowering analysts to evaluate over 100 companies versus a previous 20-30 companies daily.
- Developed a RAG AI for internal use with Python, Streamlit and Vector databases with OpenAI's API and vector databases, boosting knowledge retrieval for colleagues.

**Product Management Intern | Razer Inc.**                                                         **Apr 2022 – Jul 2022**
- Delivered 2 high impact projects and performed role of product owner and project manager on 4 projects.
- Organized Subscription Model project translating business needs into technical requirements, resulting in a projected 10% sales uplift in its first year.
- Developed Education Purchase Program conducting weekly meetings with design, business, and marketing teams, with a value of US$6mil annually across 33 markets.

**Software Engineering Intern | GovTech**                                                         **Nov 2018 – Jan 2019**
- Built a chatbot with Python and Django with a RNN AI Model, reducing the profitability of email scam operations.
- Accomplished a deep-fake project, spearheaded a social engineering project and experimented with hardware hacking.
- Awarded coin of valued contribution and created a YouTube video about my internship with 2.8K views: bit.ly/weiyushit13

## PROJECT EXPERIENCE

**Co-Founder, Developer | Surf (AI Smart Contract Auditing)**                                      **Dec 2022 – Present**
- Secured $10,000 in funding from the NUS Venture Initiation Program (VIP).
- Developed AI-driven solutions for code auditing, enhancing code security and efficiency in blockchain ecosystems.
- Coordinated and led the team to victory in 2 hackathons, showcasing technical prowess and innovative problem-solving skills.
- JIRA, Scrum and Agile methodology, LLMs, Vercel, Python.

**Developer | Algorithmic Forex Trading**                                                         **May 2021 – Present**
https://bit.ly/ethanForexAutomation
- Developed a refined martingale strategy with risk management in Python, automating trading process.
- Built backtesting framework and executed rigorous backtesting and forward testing to ensure strategy reliability with pandas.
- Manual traded 3K USD to 12K USD in 2 months and attained Master trader and Platinum membership (highest accolade) with OctaFX broker.
- Taught a group of 40 other traders and created a community around trading.

**Developer | NSDetailing Job Bot**                                                               **Jun 2021 – Aug 2021**
- Developed a Python bot for scheduling manpower duties using Streamlit and runs on Heroku, saving soldiers about 10 hours per week from manually planning guard duties on excel sheets.

# ADDITIONAL:

## LEADERSHIP EXPERIENCE

**Head of Product | Google Developer Student Club @ NUS**          **Jul 2023 – Present**
- Led a 16-member team to develop a public-use donation platform for Caregivers Alliance Limited, coordinating across software, design, and business units.
- Fostered high team morale and motivation through praise, recognition, well-being checks, and effective communication.
- Managed user requirement gathering, overseeing the creation of over 60 tickets on JIRA with AGILE workflows and sprints.
- Navigated stakeholder expectations, proposing 3 backend system solutions to address partner concerns.
- Applied organizational management frameworks from a leadership course to enhance team performance.

**Director | AppRExp**          **15th Nov 2017 - 31st Mar 2020**
http://bit.ly/weiyushit5
- Led a team of 17 people to create a library application called tmsREAD!
- Hosted weekly meetings, drove team motivation, constructed proposals for collaborations with NLB and Spyder, and drafted the company's future plans.
- Managed and helped with iOS, Android, Web and Server departments.

## HACKATHONS AND AWARDS

**Champion | Alibaba Cloud AI Hackathon**          **7th – 8th Mar 2024**
https://bit.ly/AIHackathonAlibaba
Awarded 10K SGD Cash + 10K USD Cloud Credits, First among 17 finalist teams.
- Developed *BabyNoCry*, your baby's bodyguard – an innovative AI tool for classifying baby's vocal patterns (crying, laughing, cooing) and analysing spoken word sentiment to identify potential caregiver abuse and alerts the user (over 15mil. cases globally)
- Integrated Cloud technologies (Object Storage Service, Elastic Container Instance) and a TensorFlow Lite Model (DistillBERT) for audio classification and sentiment analysis.

**Champion | What The Hack @ SUTD**          **26th – 27th Aug 2023**
https://bit.ly/GaruPaySlideDeck
Organized by Singapore University of Technology and Design, with TikTok, DBS, Accenture, GovTech, IMDA as sponsors.
- Built *GaruPay*, a LLM enhanced, payments integrated, bill splitting Telegram Bot in the Financial Technologies theme.
- Worked extensively on integrating PayPal's payout payment API into Telegram users' user flow.

**Champion | Solana Builder's League Hackathon**          **23rd – 17th Dec 2022**
https://bit.ly/weiyushit16
Organized by Solana Foundation, Metacamp, RockX, NUS Entrepreneurship Society
- Co-founded *Surf* – ChatGPT for smart contracts with 4 other team members.

**Champion | GeekOut Hackathon**          **18th – 22nd Jun 2018**
http://bit.ly/GeekOut2018 or http://bit.ly/weiyushit6
Organized by the Government Technology Agency Singapore
- Created autonomous cars with an Arduino and C.
- Awarded the creative award alongside the actual program, for writing code that balanced a moving car on two wheels as an exploration.

**Best Coding Style | BuildingBloCS**          **1st – 2nd Jun 2017**
- Coding competition to design the best commercial product with code, using a Microbit microcontroller and the Python.

## TECHNICAL SKILLS

**Programming Languages:** Python (over 10,000 lines), Java, JavaScript, C, MySQL

**Artificial Intelligence/Machine Learning:** Tensorflow, Langchain, Scikit-Learn, Pandas, Transfer Learning, RAG, P-Tuning.

**Full stack Development:** Streamlit, Vercel, React, Node.js, Express.js, Django, Telegram API, Payment API, REST API, Database Management Systems (DBMS), PostgreSQL.

**Cloud Computing & DevOps:** AWS, Google Cloud Platform, Docker, Containerization, Git, JIRA, Google Colab, SAP ERP.

## INTERESTS

Researcher in NUS FinTech Society, Football Captain in CAPT NUS, Bossa nova, Keshi and Olivia Rodrigo lover! I play the piano, and enjoy Public Speaking, Leadership, Algorithmic Forex Trading, Karate and reading.