

# Yinghao (Peter) Guan

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## Summary

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A highly motivated Computer Science student with a strong foundation in Python and Java. Possessing practical experience in software development, data analysis, and HCI research through various academic projects. Eager to apply technical skills and a passion for problem-solving to a challenging internship opportunity.

## Education

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Santa Monica College, Computer Science	Sept 2025 – Present
University of Edinburgh, BEng in Computer Science	Sept 2022 – July 2024

## Projects and Activities

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<b>Independent Research: Behavioural Modelling of Excessive Trading in Tech Stocks</b>	Jan 2025 – Apr 2025
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- Collected and integrated US tech sector stock data (META, GOOGL, MSFT) with sentiment indicators using Python (pandas, yfinance).
- Modelled the impact of DeepSeek R1 LLM launch on trading behaviour via PLS-SEM, revealing significant FoMO and overconfidence effects.
- Produced visualisations in Matplotlib to illustrate behavioural bias patterns across event windows.

<b>Hackathon: AI-Powered Language Learning Game</b>	Feb 2024
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- Co-developed a 2D escape-room style game in Unity (C#) to teach new languages through interactive puzzles.
- Integrated Google Vertex AI (Gemini) with Python to dynamically generate in-game dialogue and challenges.
- Delivered a functional prototype within 48 hours, earning positive jury feedback.

<b>Data Analysis: Performance Trends in Ultra Marathon Runners</b>	Sep 2023 – Dec 2023
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- Processed and analysed a Kaggle dataset with 200k+ race records using Python (pandas, seaborn, sklearn, scipy).
- Applied K-means clustering to segment runners by performance and demographics.
- Visualised trends across race categories, highlighting club-affiliated and age-related patterns.

<b>UCLA HCI Research Collaboration</b>	Jul 2025 – Aug 2025
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- Collaborated with UCLA HCI faculty on an exploratory research project, delivering presentations and preliminary findings.
- Preparing a peer-reviewed paper for future submission.

## Additional Projects

- Library Kiosk FAQ System** – Java, MVC, UML | Designed and implemented a hierarchical FAQ interface for campus kiosks.
- Android Chat Application** – Java, XML, Firebase | Built a real-time messaging app with cloud-based storage.

## Hackathon Participation

- Actively participated in multiple hackathons (Encode x Ethena, AdaHack, Encode ETH London) focused on Web3, DeFi, and Ethical AI, gaining hands-on experience with Solidity, dApp frameworks, and real-time NLP APIs.

## Additional Information

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**Computer Skills:** Python, Java, R, C, Haskell, Unity2D, C#, LaTeX, Git

**Languages:** Chinese, English