# John (Peikai) Mo

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## Work Experience

**Sam's Club** | *Tech Product Management Intern*                                                    Jun 2024 - Aug 2024
- Owned **two initiatives** targeting online and in-club associate fraud; authored **PRDs** that outlined strategic solutions, user stories, and product roadmap; aligned cross-functional teams; actively unblocked engineering dependencies.
- Developed and implemented data driven rules, resulting in a **60% reduction** in online agent collusion fraud.
- Impacted bottom line by **$3.6M** in annualised estimated fraud cost savings.

**Supersocial** | *Game Engineering Intern*                                                         May 2023 - Aug 2023
- Created a fully-fledged **brand IP prototype** using **UEFN/Verse** and **Agile** methodology, handling game design, programming, balance adjustments, and arranging playtests.
- Authored entire technical documentation tree on Fortnite/UEFN/Verse with **50+** Verse scripts/functionality tutorials.
- Presented prototypes and documentation at company all-hands and answered ad-hoc questions from PMs and designers.

**Mercy Ships** | *Product Engineering Intern*                                                       May 2022 - Aug 2022
- Built **full-stack applications** that automated travel applications for housing, flight, medical, and managerial checks, and more, increasing global operational efficiency.
- Resolved **100+** support tickets for **Microsoft 365** and **Atlassian Suite**.

**Computational Neuropsychology and Simulation Lab** | *Research Assistant*                          May 2021 - Aug 2021
- Built **XR** environments in **Unity** and wrote **C# scripts** to run psychological tests under the guidance of Dr. Thomas D. Parsons and Dr. Timothy (Fred) McMahan.
- Acquired a **$4000** grant.

## Projects

**Dream Boy Games** | *Co-Founder / Lead Developer*                                                  Sep 2023 - Present
- **500+ CCU** with **11,000+ plays** incubation game studio built on Fortnite with my Supersocial manager.

**TAMUhack** | *iNterview Pro* | *1st Place out of 800+*                                              Jan 2024
- Personalised AI mock interviews utilising **models** to analyse **facial expressions, eye tracking, and speech-to-text**.
- Integrated with **OpenAI's API** for real-time customised questions and feedback.

**TAMU Datathon** | *Skribblio Demon* | *4th Place out of 50+*                                        Oct 2023
- Built, trained, and tested a **convolutional neural network** with **TensorFlow** and **Keras** from Google's "Quick, Draw!" and a custom dataset to predict and classify drawings based on stroke.

**American Airlines Mini-Hack** | *Team Lead*                                                        Mar 2023
- Built, trained, and tested an **ML** model with **79% accuracy** from **200,000** data points classifying passengers as leisure or business and presented the data and a plan to optimise profit margins.

## Education

**Texas A&M University (TAMU)**                                                                      College Station, TX
Computer Science | Game Design and Development Minor | Dean's Honour Roll | GPA: 3.94/4.0          Aug 2022 - May 2025
Relevant Coursework: Machine Learning, Design and Analysis of Algorithms, DSA, NLP, UI Design, XR, Programming Studio, Applied Cryptography, Blockchain, Computer Systems, Computer Organization, Discrete Math, Calculus III, Statistics

**Texas Academy of Mathematics and Science (TAMS)**                                                 Denton, TX
Computer Science | President's List | GPA: 3.96/4.0                                               Aug 2020 - May 2022
Relevant Coursework: Computer Science I/II, Calculus I/II, Linear Algebra, Mechanics, Electricity & Magnetism

## Skills

**Programming:** C++, Python, HTML/CSS, JavaScript, Java, Verse, Scheme                      **Skills:** Agile, OOP, DSA, Git
**Technologies/Frameworks:** Azure, PowerApps, Jira, Confluence, Google Suite, Adobe Suite, TensorFlow, PyTorch, OpenCV, Pandas, YOLO, Linux, Docker, Unity, UEFN, React

**Languages:** English, Mandarin, Korean (Intermediate)                      **Interests:** Brazilian Jiu-Jitsu, ESports, Travelling