

Johnathan Yap Wen Jie

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EDUCATION & PROFESSIONAL CERTIFICATIONS

National University of Singapore	2024
Professional Certificate in Clinical Practice and CBT Foundations for Adults [here]	
National University of Singapore	2019 – 2023
Bachelor of Arts with Honours (Psychology); Grade: Distinction (2:1)	

RELEVANT PROFESSIONAL DEVELOPMENT

National University of Singapore	Jun 2025
Professional Certificate in Basic Artificial Intelligence and Machine Learning [here]	
Samaritans of Singapore & CAMS-care	Aug 2024
Collaborative Assessment and Management of Suicidality [here]	
National University of Singapore	Nov 2024
Foundations of Cognitive Behavioural Therapy	
American Psychiatric Association	Jun 2024
Motivational Interviewing for People with Serious Mental Illness [here]	
Stanford Medicine	Oct 2023
Cognitive Behavioural Therapy for Psychosis [here]	

PROFESSIONAL EXPERIENCE

NUS Office of the President (Health and Wellbeing)	Feb 2024 – Present
Associate Psychologist (with concurrent role as Data Analyst)	
<ul style="list-style-type: none">Developed Pathway, a full-stack React + Python application that automates mental health tiered care classification and assignment for 48,000+ students, integrating machine learning and risk clustering logic to optimise care distributionOversaw data science efforts by implementing models forecasting trends, optimise resource allocation, and enhance client outcomesDesigned and implemented Prophet and Gradient Boosting models, achieving a 11% average prediction error over a 10 year periodFacilitated daily clinical intake assessments for individuals presenting with anxiety, mood, and workplace concernsDelivered on-site crisis interventions, using evidence-based techniques (CBT) to de-escalate and stabilise individuals in acute distressCompleted 100+ supervised clinical hours involving risk assessment, case formulation, and therapeutic interventionsAutomated therapy registration with NLP-driven risk detection with >95% accuracy, cutting 30 staff hours/weekBuilt in-house React + TypeScript web apps for crisis rostering, room allocation and case assignment, resulting in cost savings of over \$20,000	
Ministry of Social and Family Development (Child Protective Services)	Jul 2023 – Feb 2024
Operations Strategy Analyst (Assistant Manager)	
<ul style="list-style-type: none">Led triage processes for child protection cases, ensuring timely and accurate intake management of violence and abuse casesScreened inquiries and allocated cases to various agencies using standardized assessment tools to streamline workflowsConducted social investigations and case management involving alleged abuse or neglect by parents or caregivers of childrenProvided emotional support to children and families, demonstrating empathy in high-stress and sensitive situationsLeveraged R, Python, and Power BI to optimize data extraction, predictive modeling, and risk assessment processesDeveloped a reverse-geocoding tool to map child protection case locations, enhancing geographic accuracy	

Temasek Trust <i>Communications and Engagement Intern</i>	Jan 2023 – Jun 2023
Singapore Prison Service (Psychological and Correctional Rehabilitation Division) <i>Research Intern</i>	May 2022 – Jul 2022
Ministry of Social and Family Development (Child Protective Services) <i>Child Protection Intern (Intake-ALERT)</i>	Dec 2021 – Feb 2022
NUS Office of the President (Health and Wellbeing) <i>Communications and Branding Assistant</i>	Jul 2021 – Jul 2022
Singapore Police Force (Police Psychological Services Department) <i>Research Intern</i>	Sep 2021 – Dec 2021
Central Narcotics Bureau (Communications Division) <i>Communications Intern</i>	May 2021 – Jul 2021
NUS Situated Goal Pursuit Lab <i>Undergraduate Research Assistant</i>	Jan 2021 – Jul 2021
Singapore Police Force (Airport Police Division) <i>Police Officer (Ground Response Force)</i>	Apr 2017 – Feb 2019

RELEVANT RESEARCH

1. **Yap, J.**, (2025, July). *Monte Carlo Simulation for Optimising University Mental Health Services* [Poster presentation]. Singapore Mental Health Conference 2025, Singapore [\[here\]](#)
2. **Yap, J.**, & Muhamad, H. (2025, June). *Understanding network psychopathology* [Oral presentation]. International Mental Health Conference 2025, Australia [\[here\]](#)
3. **Yap, J.**, Yeo, D., Chu, J., & Tay, A. (2025, February). *Triaging and Risk Automation System For Mental Health* [Poster presentation]. Global Mental Health in Asia 2025, Singapore. [\[here\]](#) (password: #GMHAsia2025)
4. **Yap, J.** (2024, December). *Analysing mental health discourse on mindline.sg* [Poster presentation]. Higher Education Conference in Singapore (HECS) 2024, Singapore. [\[here\]](#)

RELEVANT SKILLS

- Branding and Illustrations (e.g., Photoshop, Illustrator, Figma)
- Coding Languages and Software (e.g., HTML, CSS, JavaScript, React, Python, PowerBI)
- R Studio (e.g., data wrangling, web scraping, geospatial analysis)

RELEVANT AWARDS

NUS SPOT Award (2024)

Recognised for outstanding performance and contributions in mental health innovation at the National University of Singapore

Home Team Achievement Award (2018)