

Johnathan Yap Wen Jie

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EDUCATION & PROFESSIONAL CERTIFICATIONS

National University of Singapore Professional Certificate in Clinical Practice and CBT Foundations for Adults [here]	Apr 2025
National University of Singapore Bachelor of Arts with Honours (Psychology); Grade: Distinction (2:1)	Aug 2019 – Jun 2023

RELEVANT PROFESSIONAL DEVELOPMENT

National University of Singapore Python for Artificial Intelligence and Machine Learning [here]	Oct 2025
National University of Singapore Professional Certificate in Artificial Intelligence and Machine Learning [here]	Apr 2025
Samaritans of Singapore & CAMS-care Collaborative Assessment and Management of Suicidality [here]	Aug 2024
American Psychiatric Association Motivational Interviewing for People with Serious Mental Illness [here]	Jun 2024

PROFESSIONAL EXPERIENCE

NUS Office of the President (Health and Wellbeing) <i>Associate Psychologist (with concurrent role as Data Analyst)</i> <ul style="list-style-type: none">Built Pathway, a full-stack web platform that automates mental health screening and case assignment at scale (48,000+ students, 17,000+ staff), leveraging XGBoost to model dropout risk and session demand with geospatial capabilitiesEngineered and deployed a real-time therapist duty rostering platform with TypeScript and React, enabling secure OTP login, live availability updates, and seamless shift trading, replacing manual rostering and middleman coordinationDrove workforce planning and staffing analytics for NUS' Chief Wellbeing Officer, shaping manpower strategy, budget allocation and ROI optimisation through data-driven insightsStreamlined screening, prediction, and case assignment into a single pipeline, cutting case processing time by ~90%, enabling rapid triageLed end-to-end data science efforts, shipping reusable, plug-and-play modelling pipelines into production on Vercel & PowerBIFacilitated 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 interventions	Feb 2024 – Present
Ministry of Social and Family Development (Child Protective Services) <i>Operations Strategy Analyst (Assistant Manager)</i> <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	Jul 2023 – Feb 2024

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

- Applied Data & Machine Learning: Predictive modeling with XGBoost, demand forecasting, data wrangling, and geospatial analysis
- Full-Stack Development: Python, JavaScript/TypeScript, React, HTML/CSS; building and deploying production web applications
- Analytics & Visualisation: SQL, Power BI, R for data analysis, web scraping, and spatial insights

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)