Johnathan Yap Wen Jie

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EDUCATION & PROFESSIONAL CERTIFICATIONS

National University of Singapore Apr 2025
Professional Certificate in Clinical Practice and CBT Foundations for Adults [here]

National University of Singapore Aug 2019 – Jun 2023
Bachelor of Arts with Honours (Psychology); Grade: Distinction (2:1)

RELEVANT PROFESSIONAL DEVELOPMENT

National University of Singapore Oct 2025
Python for Artificial Intelligence and Machine Learning [here]

National University of Singapore Apr 2025
Professional Certificate in Artificial Intelligence and Machine Learning [here]

Samaritans of Singapore & CAMS-care Aug 2024
Collaborative Assessment and Management of Suicidality [here]

American Psychiatric Association Jun 2024
Motivational Interviewing for People with Serious Mental Illness [here]

PROFESSIONAL EXPERIENCE

NUS Office of the President (Health and Wellbeing) Feb 2024 – Present
Associate Psychologist (with concurrent role as Data Analyst)
- 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 capabilities
- Drove workforce planning and staffing analytics for NUS' Chief Wellbeing Officer, shaping manpower strategy, budget allocation and ROI optimisation through data-driven insights
- Streamlined screening, prediction, and case assignment into a single pipeline, cutting case processing time by ~90%, enabling rapid triage
- Led end-to-end data science, shipping reusable, plug-and-play modelling pipelines into production
- Built a React + TypeScript web app for crisis rostering, reducing manual scheduling time and saving ~$20,000 in operational costs
- Facilitated daily clinical intake assessments for individuals presenting with anxiety, mood, and workplace concerns
- Delivered on-site crisis interventions, using evidence-based techniques (CBT) to de-escalate and stabilise individuals in acute distress
- Completed 100+ supervised clinical hours involving risk assessment, case formulation, and therapeutic interventions

Ministry of Social and Family Development (Child Protective Services) Jul 2023 – Feb 2024
Operations Strategy Analyst (Assistant Manager)
- Led triage processes for child protection cases, ensuring timely and accurate intake management of violence and abuse cases
- Screened inquiries and allocated cases to various agencies using standardized assessment tools to streamline workflows
- Conducted social investigations and case management involving alleged abuse or neglect by parents or caregivers of children
- Provided emotional support to children and families, demonstrating empathy in high-stress and sensitive situations
- Leveraged R, Python, and Power BI to optimize data extraction, predictive modeling, and risk assessment processes
- Developed a reverse-geocoding tool to map child protection case locations, enhancing geographic accuracy

Temasek Trust   Jan 2023 – Jun 2023
Communications and Engagement Intern

Singapore Prison Service (Psychological and Correctional Rehabilitation Division)   May 2022 – Jul 2022
Research Intern

Ministry of Social and Family Development (Child Protective Services)   Dec 2021 – Feb 2022
Child Protection Intern (Intake-ALERT)

NUS Office of the President (Health and Wellbeing)   Jul 2021 – Jul 2022
Communications and Branding Assistant

Singapore Police Force (Police Psychological Services Department)   Sep 2021 – Dec 2021
Research Intern

Central Narcotics Bureau (Communications Division)   May 2021 – Jul 2021
Communications Intern

NUS Situated Goal Pursuit Lab   Jan 2021 – Jul 2021
Undergraduate Research Assistant

Singapore Police Force (Airport Police Division)   Apr 2017 – Feb 2019
Police Officer (Ground Response Force)

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)