

# Johnathan Yap Wen Jie

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## EDUCATION & PROFESSIONAL CERTIFICATIONS

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

## RELEVANT PROFESSIONAL DEVELOPMENT

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<b>National University of Singapore</b> Python for Artificial Intelligence and Machine Learning <a href="#">[here]</a>	Oct 2025
<b>National University of Singapore</b> Professional Certificate in Artificial Intelligence and Machine Learning <a href="#">[here]</a>	Apr 2025
<b>Samaritans of Singapore &amp; CAMS-care</b> Collaborative Assessment and Management of Suicidality <a href="#">[here]</a>	Aug 2024
<b>American Psychiatric Association</b> Motivational Interviewing for People with Serious Mental Illness <a href="#">[here]</a>	Jun 2024

## PROFESSIONAL EXPERIENCE

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<b>NUS Office of the President (Health and Wellbeing)</b> <i>Associate Psychologist (with concurrent role as Data Analyst)</i> <ul style="list-style-type: none"><li>Built <a href="#">Pathway</a>, 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</li><li>Engineered a <a href="#">real-time scheduling platform</a> for 20+ staff, featuring end-to-end shift trading, live availability updates, and OTP authentication, eliminating manual coordination and reducing admin workload by 60%</li><li>Delivered workforce analytics and data storytelling for NUS' Chief Wellbeing Officer, shaping staffing strategy and budget allocation, and contributing to the reversal of a manpower freeze for the entire department</li><li>Designed and deployed plug-and-play modeling pipelines to production on Vercel, PowerBI and Jupyter, supporting 5+ teams and handling 5,000+ clinical records monthly</li><li>Streamlined screening, prediction, and case assignment into a single pipeline, cutting case processing time by ~90%, enabling rapid triage</li><li>Facilitated daily clinical intake assessments for individuals presenting with anxiety, mood, and workplace concerns</li><li>Delivered on-site crisis interventions, using evidence-based techniques (CBT) to de-escalate and stabilise individuals in acute distress</li><li>Completed 100+ supervised clinical hours involving risk assessment, case formulation, and therapeutic interventions</li></ul>	Feb 2024 – Present
<b>Ministry of Social and Family Development (Child Protective Services)</b> <i>Operations Strategy Analyst (Assistant Manager)</i> <ul style="list-style-type: none"><li>Led triage processes for child protection cases, ensuring timely and accurate intake management of violence and abuse cases</li><li>Screened inquiries and allocated cases to various agencies using standardized assessment tools to streamline workflows</li><li>Conducted social investigations and case management involving alleged abuse or neglect by parents or caregivers of children</li><li>Provided emotional support to children and families, demonstrating empathy in high-stress and sensitive situations</li><li>Leveraged R, Python, and Power BI to optimize data extraction, predictive modeling, and risk assessment processes</li><li>Developed a reverse-geocoding tool to map child protection case locations, enhancing geographic accuracy</li></ul>	Jul 2023 – Feb 2024

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

## RELEVANT RESEARCH

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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

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- 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

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### 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)