

# Johnathan Yap Wen Jie

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## EDUCATION & PROFESSIONAL CERTIFICATIONS

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**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

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**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

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**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
- Engineered 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 coordination
- 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 efforts, shipping reusable, plug-and-play modelling pipelines into production on Vercel & PowerBI
- 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

<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)**