

# Enoch Mok

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Data scientist and developer with strong skills in Python, SQL, and data modelling.  
Experienced in building pipelines and dashboards to support decision-making.

## Work Experience

**SingHealth** | *Python, Tableau*  
Data Analyst

Dec 2024 – Ongoing

- Developed and optimized Tableau dashboards to provide policymakers insights of population demographics, enabling data-driven decision-making for governed sections from 8M+ rows of EHR data.
- Maintained and enhanced a value-based care dashboard to track healthcare efficiency metrics, ensuring accurate quarterly updates to support cost-effective treatments and reduce cost by \$18M+.
- Analyzed 150,000+ survey responses to uncover patterns in elderly well-being, identifying key correlations across mental, physical, psychological, social, and digital health factors using clustering methods.
- Executed User Acceptance Testing (UAT) for a 24M+ row historical data migration, detecting and resolving inconsistencies to ensure accurate and seamless data transition between systems.

## Projects

**HDB-LTA Public Transport Data Analysis** | *Python* | [GitHub](#)

Jul 2024

- Analysed public transport statistics to review areas with inadequate transport facilities using **Python**, identifying evidences of underservice and thus recommend future transport infrastructure projects to expedite.
- Developed interactive geospatial visualizations, illustrating public transport coverage in 40 residential areas.
- Designed a public transport equity scoring index, pinpointing current service disparities affecting half a million residents and quantifying the extent of underservice in these communities.
- Implemented automated data mining processes to retrieve real-time public transportation information from multiple RESTful APIs and data sources, enabling accurate analysis of current service availability.

## Education

**Nanyang Technological University**  
*Bachelor of Engineering - Computer Science*  
*Specialization: Data Science & Artificial Intelligence*

Aug 2020 – Jun 2024  
*Under CN Yang Scholars Programme*

## Publications

**Federated Learning for Breast Cancer Classification** | [DOI](#)

Feb 2024

- Conducted privacy-preserving AI research, specifically federated learning in medical imaging.
- Analyzed performance of centralized and federated machine learning models, identifying areas for improvement.
- Book: AI-Driven Innovations in Digital Healthcare: Emerging Trends, Challenges, and Applications
- Authors: **Enoch Mok**, Dr. Yasmeen George

## Skills

Programming Languages: **Python**, **SQL**, **R**, JavaScript  
Databases & Cloud: **PostgreSQL**, **AWS**, CouchDB  
Visualization Tools: **Tableau**  
Development Tools: Git, Docker, Bash, PowerShell

## Hobbies

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### **Band Musician**

2015 – Present

- Collaborated closely with band members to maintain tempo, synchronize dynamics, and refine musical expression through constructive feedback, fostering a cohesive and polished performance.
- Led rehearsals as Music Director, guiding arrangement decisions, ensuring musical consistency, and mentoring bandmates to enhance their technical skills and stage presence.
- Adapted to various musical styles and performance settings, demonstrating flexibility, quick problem-solving, and teamwork to deliver high-quality live and studio recordings.

### **Ultimate Frisbee**

2014 – Present

- Managed and led diverse teams as captain in various competitive events, both locally and internationally.
- Demonstrated composure during heated moments, ensuring the team continues to work in unison despite trials.
- Coached at alma mater - prepared and oversaw weekly training plans that resulted in podium finishes.