Timothy Putra Prasetio

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EDUCATION

National University of Singapore, Singapore   **Aug 2022 – May 2026**

Bachelor of Computing (Hons.) in Computer Science (GPA: 4.63/5.0)

- ASEAN Undergraduate Scholarship recipient (Full-ride)

EXPERIENCE

HomePal Technologies,   **Aug 2023 – Dec 2024**

Full-stack Developer Intern   *Singapore*

- Built AI-enabled fall detection mobile application using Flutter and Django, integrating with Firebase for real-time elderly care monitoring
- Developed cross-platform interfaces using Tkinter and Python Dash for Raspberry Pi, streamlining ML model training workflows and improving processing speed by 300%
- **Technologies**: Flutter, Firebase, Django Tkinter, Dash

CareSense,   **Oct 2024 – Dec 2024**

Software Engineer Intern   *Singapore*

- Led Android development for healthcare application, implementing secure authentication and health data integration using Google APIs
- Developed cross-platform mobile features using React Native and Expo framework for AI health coach integration
- **Technologies**: React Native, Expo, Google APIs (Login, Fit, Health Connect), Android Development

PROJECTS

PeerPrep   **Aug 2024 – Nov 2024**

- Architected and implemented a collaborative coding platform designed for technical interview preparation, featuring real-time pair programming capabilities, video communication, and LeetCode-style coding problems.
- Architected collaborative coding platform for technical interview preparation with real-time features including:
  - WebSocket-based pair programming system using Spring Boot and RabbitMQ
  - Question management interface using React, TypeScript, and shadcn/ui
  - User progress tracking system with MongoDB and REST APIs
- **Technologies**: React, TypeScript, Java Spring Boot, MongoDB, Docker, WebSocket, RabbitMQ

LetsGetHired   **Jul 2023 – Dec 2023**

- Developed desktop application for internship application tracking using Java and JavaFX
- Implemented comprehensive test suite using Gradle, ensuring 90%+ test coverage
- **Technologies**: Java, JavaFX, Gradle, JUnit

Public Health Screening Application   **May 2023 – Jul 2023**

- Built web application enabling medical clerks to manage patient data and diagnoses
- Implemented responsive UI components using React and integrated with MongoDB backend
- **Technologies**: JavaScript, React, MongoDB

CO-CURRICULAR ACTIVITIES

Vice President, NUS Guitar Ensemble   **Apr 2023 - Apr 2024**

- Led 10-member executive committee, organizing events reaching 500+ audience members
- Managed budget of $20,000 for concerts and community engagement initiatives

House Captain, NUS College   **Aug 2022 - Aug 2023**

- Directed committee of 3 members to execute 10 student welfare initiatives impacting 150 students

ADDITIONAL INFORMATION

Technical Skills:

- **Languages**: Java, Python, C++, JavaScript, TypeScript, Golang, Dart, SQL
- **Frontend**: React, HTML/CSS, Flutter, React Native, Tkinter
- **Backend**: Spring Boot, Django, Firebase, MongoDB
- **Tools & Infrastructure**: Git, Docker, PostgreSQL, RabbitMQ, WebSocket