

VIGO KING

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EDUCATION

National University of Singapore | ASEAN Undergraduate Scholarship Recipient **Aug 2024 – Aug 2028**

Bachelor of Computing in Computer Science

- Specialisation in Artificial Intelligence & Database Systems
- Minor in Data Analytics
- Relevant Coursework: Data Structure & Algorithms, Software Engineering, Database Systems, Computer Organization

TECHNICAL SKILLS

- Programming Languages: Java, Python, JavaScript, HTML, CSS, C, C++
- Frameworks & Tools: Git, Spring Boot, JPA/Hibernate, JavaFX, JUnit, Phaser, PostgreSQL, Bash, SceneBuilder
- Languages: English (Professional), Bahasa Indonesia (Native), Mandarin (Basic)

TECHNICAL PROJECTS

TrecTask, Personal Task Manager | React, Java, PostgreSQL, Spring Boot **Jan 2026 – Present**

- Designed and developed a RESTful backend using Spring Boot following a layered architecture (Controller → Service → Repository).
- Implemented full CRUD operations and task status toggling with proper HTTP method semantics (GET, POST, PUT, DELETE).
- Designed and optimized relational schemas using JPA/Hibernate, improving database interaction efficiency through proper entity mapping.
- Handled cross-origin configuration (CORS) and resolved full-stack integration issues during API testing.
- Implemented pagination for scalable task retrieval and improved API response handling.

ClientCore, Financial Advisor Contact Manager | Java, JavaFX, JUnit, Git **Sep 2025 - Nov 2025**

- Architected an MVC-based desktop application by refactoring a "Brownfield" Address Book codebase to serve financial advisers.
- Optimized data accessibility by implementing custom "View" and "List Package" modules for streamlined client information retrieval.
- Implemented automated JUnit testing to guarantee reliable command parsing and prevent runtime errors.
- Established CI workflows with GitHub Actions, enabling consistent automated validation for every commit.
- Strengthened code quality through collaborative peer reviews and adherence to maintainable design principles.

Expense Analyzer | Python, PostgreSQL, Scikit-Learn, Pandas, Streamlit **Jan 2026 - Feb 2026**

- Developed a PostgreSQL-backed system to analyze and forecast personal expenses using Python, Pandas, and Scikit-Learn.
- Performed time-series forecasting and anomaly detection to identify spending trends and unusual transactions.
- Created an interactive Streamlit dashboard for real-time visualization of financial insights and predictive analytics.
- Designed and normalized a relational database schema with indexed queries to ensure efficient storage and retrieval of transaction-level data.

Falco, A Personal Chatbot | Java, JavaFX, JUnit, Git **Aug 2025 - Sep 2025**

- Developed a modular Java-based chatbot application with clear separation of concerns.
- Implemented a JavaFX (SceneBuilder) graphical interface to support tracking and managing 100+ user-defined events.
- Applied object-oriented programming principles and abstraction to create maintainable codebase.
- Automated functionality testing with JUnit, ensuring reliable task tracking and robust performance.