VIGO KING

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EDUCATION

National University of Singapore **Aug 2024 - Present**
Bachelor of Computing in Computer Science
- Specialisation in Artificial Intelligence & Database System
- Minor in Data Analytics

AWARDS & SCHOLARSHIP

- ASEAN Undergraduate Scholarship Recipient
- MOE Tuition Grant Recipient

SKILLS

- Languages: Java, C, C++, Python, SQL, JavaScript, HTML, CSS
- Frameworks & Libraries: JavaFX (SceneBuilder), JUnit, GitHub Actions
- AI & Data Analytics: Machine Learning(ML), PostgreSQL, Pandas, NumPy, Scikit-learn
- Tools & DevOps: Git/GitHub, IntelliJ
- Languages (Spoken): English (Professional), Bahasa Indonesia (Native), Mandarin (Basic)

TECHNICAL PROJECTS

Falco, A Personal Chatbot | Java, JavaFX, JUnit, Git **Aug 2025 - Sep 2025**
- Designed and implemented a Java-based personal chatbot with a JavaFX GUI using SceneBuilder, allowing users to manage 100+ tasks.
- Applied object-oriented programming principles and abstraction to create a modular, maintainable codebase.
- Automated functionality testing with JUnit, ensuring reliable task tracking and robust performance.

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 in a team-of-5.
- Optimized data accessibility by implementing custom “View” and “List Package” modules for streamlined client information retrieval.
- Ensured 100% command parsing reliability through automated unit testing with JUnit, continuous integration via GitHub Actions, and peer code reviews for robust, maintainable code.

Expense Analyzer | Python, SQL (PostgreSQL), Scikit-Learn, Pandas **Jan 2026 - Feb 2026**
- Built a PostgreSQL-backed expense analysis system using Python and machine learning to forecast monthly spending and track daily expenses.
- Designed and implemented a relational database schema to support efficient querying and analytics.
- Performed time-series analysis and anomaly detection on financial transaction data.
- Created an interactive Streamlit dashboard to visualize insights and predictions.

Autonomous Navigation Robot | C++, Arduino **Jan 2025 - Apr 2025**
- Developed motor control and obstacle avoidance algorithms for an Arduino-based car within a 5-member engineering team.
- Led the 5-week testing and calibration phase, achieving smoother navigation through iterative algorithm optimization.
- Edited a 5-minute video documenting the robot’s development process, incorporating animations and voice-over narration.