

# Victor Lai

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## EDUCATION

<b>National University of Singapore</b> Bachelor of Computing (Honours) in Computer Science <ul style="list-style-type: none"><li>• Focus Areas: Database Systems, Parallel Computing</li><li>• Global Merit Scholar</li></ul>	Expected: May 2026
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## EXPERIENCE

<b>Qube Research and Technologies</b> Quantitative Technology Intern	May 2025 – Dec 2025 Hong Kong
<b>Morgan Stanley</b> Technology Summer Analyst <ul style="list-style-type: none"><li>• Developed a close-based generative AI chatbot with Retrieval-Augmented Generation and LLM for FX trading</li><li>• Implemented an ETL pipeline to expand and transform knowledge base for optimized similarity search</li><li>• Engineered a hybrid document search of 92% accuracy, by chaining embedding and statistical based vectorizers</li><li>• Achieved 74% answers accuracy (ROUGE, METEOR) with a compact 248M parameter large language model</li><li>• Researched on LLM architectures, optimized prompt variations and applied CPU-friendly inference methods</li></ul>	May 2024 – Aug 2024 Singapore
<b>Switchco Labs</b> Software Engineer Intern <ul style="list-style-type: none"><li>• Engineered 14 new database tables and Node.js scripts to track real-time trading insights</li><li>• Implemented APIs for the trading exchange's users address book</li><li>• Migrated EVM Explorer website and database servers from AWS to GCP and configured CI pipeline</li><li>• Built ETL jobs to populate on-chain data into spreadsheets, reducing daily manual processing by 1 hour</li></ul>	May 2023 – Jul 2023 Singapore
<b>Cyberlitmus</b> Software Engineer Intern <ul style="list-style-type: none"><li>• Developed RESTful APIs in Go, handling data for large user groups</li><li>• Integrated automated CRON jobs for efficient data updates and generating email reports of email breaches</li><li>• Created over 25 interactive front-end websites simulating real-world phishing attacks with Angular</li></ul>	Jan 2022 – Apr 2022 Singapore

## PROJECTS

<ul style="list-style-type: none"><li>• <u>LeData James</u>: Automated data pipelines to process and analyze live NBA player stats, enabling real-time trade prediction models and player similarity analysis</li><li>• <u>Mood Sync</u>: Full-stack iOS app to share moods with partner and automate responses</li><li>• <u>Closer</u>: Server supporting CRUD operations, Redis-based caching, WebSocket messaging for a social platform</li></ul>
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## SKILLS

<ul style="list-style-type: none"><li>• <b>Languages:</b> C++, Go, Java, MongoDB, Python, PostgreSQL, Swift, TypeScript</li><li>• <b>Frameworks:</b> Angular, Django, Hadoop, MapReduce, Node.js, NumPy, Pandas, Pytorch, Redis, Spark, Scikit-learn</li><li>• <b>Technologies:</b> Docker, Git, Google Cloud Platform, IntelliJ, Kubernetes, Linux, PgAdmin, Postman, VSCode</li></ul>
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