

# Hy Nguyen

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## EDUCATION

<b>The University of Adelaide</b> <i>Bachelor of Computer Science (Advanced)</i> • GPA: 6.33/7.0	Adelaide, SA Feb 2024 – Dec 2026
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## EXPERIENCE

<b>Machine Learning Engineer Intern</b> <i>FPT Software</i>	Jul 2025 – Aug 2025 <i>Ho Chi Minh City, VN</i>
• Developing a novel NLP-powered reporting engine for US healthcare leader NRC Health, translating complex natural language queries into dynamic data reports. • Engineering an advanced conversational AI solution leveraging state-of-the-art LLMs, semantic search, and the LangChain framework to automate and democratize data analysis.	

## PROJECTS

<b>Cinesphere - Full-Stack Movie Discovery App</b>   <i>Vue.js, Node.js, Express, REST API</i>	Mar 2025 – Jun 2025
• Developed a full-stack movie discovery app with 12+ features using Vue.js, Node.js, MySQL, and TMDb API, enabling dynamic search, reviews, and playlist management. • Improved backend performance by 60% through SQL indexing, query optimization, and schema normalization, significantly reducing response times for search and playlist features. • Built a modular backend with 3 teammates using the repository pattern, improving code reusability and testability across 15+ API endpoints.	

<b>Task Scheduler</b>   <i>Python, Telegram Bot API, SQLite</i>	Dec 2024 – Feb 2024
• Developed a task management bot using asynchronous programming, reducing missed deadlines. • Built a responsive system handling 50+ concurrent requests, increasing user engagement by 30%. • Increased user productivity by 25% by integrating real-time notifications and structured task lists, resulting in enhanced time management.	

## COMMUNITY ENGAGEMENT

<b>ESC Weekly</b>	Jul 2022 – Jan 2025
• Founded a student-led English proficiency program benefiting 600+ high school students, improving IELTS scores and communication skills. • Managed a team of 6 peer mentors by implementing training protocols and performance metrics, resulting in higher student satisfaction and improved learning outcomes.	

## AWARDS

<b>Jane Street Electronic Trading Challenge</b>   <b>First Place</b>	Mar 2025 – Mar 2025
• Outperformed 14 competing teams by developing a market-making algorithm implementing statistical arbitrage strategies with real-time data processing techniques, resulting in the highest portfolio value in the competition.	

<b>Youth Innovation Competition</b>   <b>Special Prize</b>	Dec 2022 – Dec 2022
• Awarded for creating an object detection application with 87% accuracy, enabling Vietnamese users to expand their English vocabulary through interactive learning.	

<b>National English Olympiad</b>   <b>Third Prize</b>	Feb 2021 – Feb 2021
• Demonstrated exceptional analytical reasoning, critical thinking, and advanced language skills in Vietnam's premier national competition, ranking in the top 1% of competitors.	

## TECHNICAL SKILLS

**Languages & Databases:** Python, C/C++, Java, JavaScript, SQL, HTML/CSS, R, MySQL

**Developer Tools & Technologies:** Git, GitHub, Docker, VS Code