

# Le Duc Manh

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## EDUCATION

### NANYANG TECHNOLOGICAL UNIVERSITY, SINGAPORE

Jul 2023 – May 2027

#### Bachelor of Engineering (Honours), Computer Science

- **Relevant Coursework** – Operating System, Software Engineering, Object-Oriented Design & Programming, Introduction to Databases, Computer Network.
- **Online Modules** – IBM DevOps and Software Engineering(Coursera), Google IT Automation with Python(Coursera), AWS Fundamentals Specialization(Coursera).

## ACHIEVEMENT/AWARD/HONOURS

- Consolation Prize in Vietnamese Physics Olympiad(VphO) (2022-2023).
- Champions representing NTU Cheerleading in CASNCC 2024(varsity category)

## PROJECT WORK

### CI/CD Pipeline for DevOps (Jenkins, Docker, Kubernetes, ArgoCD, Nginx)

Dec 2024 – Feb 2025

- Developed an automated CI/CD pipeline using Jenkins to streamline application deployment.
- Built Docker images with multi-stage builds and deployed them in a Kubernetes cluster using Helm charts.
- Integrated ArgoCD for GitOps, reducing manual deployment steps and improving infrastructure management.
- Used SonarQube for security analysis, reducing potential vulnerabilities in the software development lifecycle.
- Configured Nginx as a reverse proxy for security and traffic management.

### Spring Boot Web Application (Java, Spring Boot, Maven, PostgreSQL)

Dec 2024 – Jan 2025

- Designed and developed a web application using Java and Spring Boot, following MVC architecture.
- Implemented RESTful APIs for user authentication, task management, and data retrieval.
- Integrated PostgreSQL as the database for efficient data storage and retrieval.
- Used Maven for dependency management and build automation.
- Secured APIs with JWT authentication and Spring Security to protect user data.
- Deployed the application using Docker and Kubernetes for scalability and maintainability.

### Task Tracker CLI (Python & PostgreSQL)

Oct 2024 - Dec 2024

- Built a CLI-based task tracker for managing tasks and automating reminders.
- Implemented a database-backed task storage system using PostgreSQL for efficient data management.
- Designed and developed automation features, including task categorization and notification alerts.
- Integrated logging and error handling for better debugging and maintenance.
- Used GitHub Actions for continuous integration and deployment, ensuring robust software updates.
- Developed and implemented unit tests using PyTest to validate task operations and ensure robustness.

## COMPUTER SKILLS

- Programming: Python, Go, Java, C, C++, R, PostgreSQL, SQL
- Web Development: Java, Spring Boot, Maven, RESTful APIs
- DevOps & Cloud: Docker, Kubernetes, AWS (EC2, Linux), ArgoCD, Nginx
- CI/CD & Automation: GitHub Actions, GitLab CI/CD, Jenkins
- Version Control: Git, GitHub
- Operating Systems: Linux (Ubuntu, CentOS), Windows Server
- Scripting & Tools: Bash, Shell, Jupyter Notebook
- Networking & Security: Nginx reverse proxy, Load Balancing, TLS/SSL Configuration
- Testing: Junit, PyTest

## SOFT SKILLS

- Problem-Solving: Ability to analyze and resolve technical challenges effectively.
- Adaptability: Quick learner, able to adjust to new technologies and work environments.
- Teamwork: Experienced in working collaboratively with diverse teams to achieve project goals.
- Leadership: Successfully led and managed teams in various projects and organizational activities.
- Communication: Strong ability to convey technical concepts clearly and concisely.
- Time Management: Skilled in handling multiple projects simultaneously while meeting deadlines.

## **LEADERSHIP EXPERIENCES / CO-CURRICULA ACTIVITIES / COMMUNITY SERVICES**

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### **NTU ACES Cheerleading**

April 2024 - Present

#### *Vice – Captain*

- Led a team of 40+ athletes and coordinated 10+ training sessions for NTU ACES Cheerleading.
- Organized logistics and competition strategies for varsity-level performances.
- Developed leadership, communication, and crisis management skills through high-pressure events

### **Vietnamese Community in NTU (VNNTU - SIC Vietnam)**

Aug 2024 - Oct 2024

#### *Hall Cluster leader*

- Led a team of 20 members in organizing and directing a play for the VNNTU 4-Season event.
- Managed scriptwriting, stage design, and team coordination to ensure a successful performance.
- Developed leadership, project management, and public speaking skills while overseeing rehearsals and event execution.

### **Freshman Orientation Camp 2024 (FOC'24)**

Aug 2023 – Aug 2024

#### *Head of Orientation*

- Led the orientation program, assisting potential candidates in applying to NTU.
- Provided mentorship and support to Vietnamese freshmen, helping them navigate school admissions and adapt to life in Singapore.
- Organized campus tours, networking sessions, and resource-sharing events to ease student transitions.
- Strengthened leadership, public speaking, and event management skills.