

LUAN CHEE SEONG

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EDUCATION

National University of Singapore

Aug 2022 - Present

Bachelor of Computing in Information Security

- Expected Date of Graduation: Nov 2026
- Presently Year 3 Student
- Current GPA: 4.42 / 5.0

Jurong Pioneer Junior College

Jan 2018 - Dec 2019

General Certificate of Education Advanced Level (GCE A-Level)

- Rank Point: 87.5
- Studied H2 Computing, H2 Chemistry, H2 Mathematics, H1 Economics

SKILLS

- Programming Languages: Python, Java, C, C++, JavaScript, HTML
- Scripting Languages: Python, Bash, JavaScript
- Operating Systems: Linux, Windows
- CI/CD & DevOps tools: GitLab CI, Jenkins, GitHub Actions
- Version Control: Git, GitLab, GitHub
- Containerisation and Orchestration: Docker, Docker Swarm, Kubernetes
- Cloud & Infrastructure: AWS (with Boto3), Terraform
- Configuration management: Ansible
- Testing & Automation: Selenium
- Others: JIRA (project management and issue tracking), Confluence (documentation)

PROJECTS

Portfolio Site (Personal DevOps project)

May 2025 – Present

- Built and deployed a personal static site to showcase DevOps capabilities using AWS, Terraform, Ansible, GitHub Actions, Hugo, and Nginx
- Customised a Hugo theme to generate a static site showcasing personal projects and technical experience
- Provisioned full cloud infrastructure in AWS using Terraform, including EC2, networking (VPC, subnets, security groups), and Elastic IP
- Registered and configured a custom domain ([cheeseong-luan.dev](https://www.cheeseong-luan.dev/)) with appropriate DNS records for public access
- Configured Nginx to directly server static content and used Certbot to enable HTTPS with automated SSL renewal
- Automated CI/CD pipeline using GitHub Actions to:
 - Build the Hugo static site
 - Upload artifacts
 - Deploy the site to the EC2 instance using Ansible
- Gained practical experience in infrastructure automation, CI/CD orchestration, and secure web hosting on AWS

StockPal (Inventory Management System) (School project)

Feb 2024 - Apr 2024

- Developed a command-line inventory management system in Java 11, tailored for small business owners
- Implemented a delete feature for precise and reliable removal of products from the inventory list, and formulated command parsing logic using Regular Expressions for 7 commands to facilitate further processing
- Devised and integrated JUnit tests for the Parser and Delete features, emphasizing a test-driven approach to ensure high-quality results
- Integrated GitHub and SourceTree seamlessly into the development workflow, demonstrating a commitment to best practices in version control and team collaboration
- Authored the User Guide and Developer Guide to ensure clarity for end-users and provide detailed technical insights for developers
- Designed and generated UML diagrams, including Class and Sequence Diagrams, to illustrate system functionality and interactions

Orbital (CP2106 - Independent Software Development Project)

May 2023 - Aug 2023

- Explored game development in a team of 2 and created a 2D Platformer game using Godot game engine with native language GDScript
- Obtained Orbital - Apollo 11(Advanced) completion certificate
- Completed a small-scale software project (game development) in an iterative software development life cycle

INTERNSHIP & WORK EXPERIENCE

DevOps Engineering Intern, Kiteworks Pte Ltd, Singapore

Jan 2025 – Jun 2025

- Developed and rigorously tested over 10 Python automation scripts, alongside Jenkinsfiles, integrated into Jenkins pipelines
- Integrated multiple external APIs into Python automation scripts to enhance functionality and automate data retrieval
- Created proof-of-concept evaluations for tools such as Opengrep, GitLab's Secrets Detection and Container Scanning features
- Provisioned VMware instances to support developer environments and improve infrastructure agility
- Automated daily AWS EC2 instances usage reporting into 2 HTML reports across teams using Boto3 to optimize resource monitoring and cost visibility
- Explored the use of Selenium for automated web UI testing to enhance test coverage and reliability
- Documented workflows and proof-of-concepts on Confluence, and tracked progress and tasks using Jira

Firmware & Software Engineering Intern, Seagate Technology, Singapore

May 2024 – Dec 2024

- Developed a file-based database system to store core information from over 1,000 tests and manage at least 5 million lines of code
- Designed structured and logical Python scripts with Object-Oriented Programming to parse C and C++ test source code and extract test information
- Documented test source code using the open-source Doxygen tool and generated call graphs with Python and Bash scripts
- Designed simple web page layout using HTML, CSS and JavaScript leveraged by Test Engineers to map between tests and features to create focused test lists for test runs
- Implemented interactive and visual call graph on webpage using D3.js data visualisation library, providing clear function chains for each function in source code
- Integrated backend using Flask to set up lightweight web server
- Enhanced efficiency and reduced manual search time for Test Engineers by over 40%
- Automated timely generation of call graphs to ensure Test Engineers received live and accurate data
- Leveraged Perforce for version control, JIRA for project management and issue tracking, and Code Collaborator for peer code reviews to enhance team collaboration, streamline development workflows, and improve code quality

CERTIFICATIONS & PROFESSIONAL DEVELOPMENT

Google IT Automation with Python Professional Certificate

- Date Certified: September 2024
- Issuing Organization: Google, Coursera
- Acquired hands-on coding skills in Python and Bash for IT automation.
- Completed projects covering version control with Git, Cloud Computing fundamentals on Google Cloud Platform, basic DevOps knowledge (CI/CD) and IT Infrastructure set-up using Puppet.
- Gained hands-on experience with Docker, including creating and managing containers to streamline application deployment.
- Acquired foundation knowledge of Kubernetes for orchestrating containerised applications, managing clusters and scaling deployments.

Professional Development

- Currently pursuing **AWS Certified Cloud Practitioner** and **Certified Kubernetes Administrator (CKA)** to enhance cloud and container orchestration expertise.