# LEE YU EN HECTOR

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## EDUCATION

**Singapore Management University (SMU)**                                                                                        **Singapore**
*Bachelor of Science (Computer Science)*                                                                                 **Jan 2021 - Present**
  - Majoring in CyberSecurity

**Former Singapore Armed Forces Scholarship Recipient**                                                                          **Singapore**

## EXPERIENCE

**The Hamster Hotel SG**                                                                                                          **Singapore**
*Contract Systems Architect Consultant*                                                                                   **Jan 2025 - Mar 2025**
  - Devised and implemented a robust and secure CCTV camera system involving 6 wireless CCTV cameras, an Orange PI zero containing a Wireguard Client, and a VPS incorporating a Wireguard server with a 100% uptime low latency video feed
  - Implemented security measures to ensure networking is obscured from users, providing only interfaces to view RSTP and ONVIF video feeds without having access to any of the internal networking of cameras, Orange Pi Zero, or VPS containing the Wireguard Server

**MUFG (Mitsubishi UFJ Financial Group)**                                                                                        **Singapore**
*CyberSecurity Intern*                                                                                                    **Jan 2024 - Jul 2024**
  - Conducted network vulnerability scanning for over 6 different regions to detect possible vulnerabilities using Qualys; and proposed solutions to these problems
  - Provided support on dissemination and tracking of monthly Security Patch Advisory (SPAs) for all 9 regions globally
  - Devised 2 custom original industry-level secure configuration guides for servers and devices, and made an original Powershell Tool to check a Window's device security configuration across the M365 Environment(PowerBI/MicrosoftFabric, Azure Active Directory, Exchange Online, PowerPlatform, Microsoft Defender, Microsoft Teams, SharePoint)

**Leaptechnology SG**                                                                                                            **Singapore**
*Software Engineering Intern*                                                                                             **Jul 2023 - Dec 2023**
  - Designed and Implemented an entire commercial financial reconciliation project consisting of 3 Microservices to reduce Financial Audit Generation time from 19 days down to 15 minutes
  - Created an automated bot-- generating an audit-ready financial report of all financial platforms for Sakae Sushi in under 10 minutes
  - Built a prediction model-- predicting future sales using 5 different metrics while taking into account unpredictable shocks
  - Developed a web-scraper to collate open-source interior design information from different media platforms in form of text, videos, audio, and pictures, replete with publicly available user details to train an openAI model to comprehensively respond to interior design queries within 3 seconds

## SKILLS & INTERESTS

  - Skills: Machine Learning (Prophet, PyTorch), Data Science & Analytics, Software Development, Cybersecurity (Vulnerability Management, ThreatHunting, Active Directory Pentesting)
  - Programming: Python (Pandas, NumPy, Playwright, BeautifulSoup), Java, C, PowerShell, Assembly, SQL, Javascript, HTML, CSS
  - Technologies: Docker, AWS, Flask, Django, Waitress, React, Git, Springboot, DigitalOcean, Heroku

## COMMUNITY SERVICE

**CDAC (Chinese Development Association Council)**                                                                                **Singapore**
*Head Volunteer Coordinator*                                                                                                **2023 - Present**
  - Tutored at least 10 upper-primary school students on Math, English, and Science
  - Planned and executed mid-year and end-of-year events for students including daytrip and full-day camps

## PROJECTS

**CS301 Security (AWS)**                                                                                                          **Singapore**
*Academic Project*                                                                                                             **2023 - 2023**
  - Formulated frontend and backend authentication systems for bank-admin authentication website using AWS services; replete with OTP generation, verification and email authentication
  - Created publicly available JWKS (JSON Web Key-Set) endpoint to simulate users connecting to Microservice to use features

## CERTIFICATIONS
  - Practical Junior Penetration Tester (PJPT)