

# Erwin Leonardy

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## EDUCATION

**University of Wollongong, Bachelor of Computer Science (Digital Systems Security)** Jan 2017 – June 2019

Singapore Institute of Management (SIM)

- Dean's Merit List 2017-2018 (Top 5% of the cohort)
- Graduated with Distinction (Average Mark: 83)
- **Coursework:** Algorithm and Data Structure, Distributed System and Cloud Computing, Object and Generic Programming in C++, Java Programming and Applications, System Developments, Software Development Method and Tools, Database System, Cryptography and Secure Applications, Network Security, System Security

## WORK EXPERIENCE

**Software Engineer, Backend, Xfers, Indonesia** Oct 2020 – Present

- Developed direct bank integrations using Ruby on Rails, MySQL, and Redis
- Built and automated merchant withdrawal and daily settlement
- Debugged production codes and improved internal admin panel
- Spearheaded and led Xfers' Internship Programme

**Founder & Full-Stack Developer, [Pengacaramu](#), Indonesia** Jan 2020 – Feb 2021

- Built a marketplace, with a publicly viewable URL for each user, using Bootstrap, ReactJS, Axios, and Redux
- Implemented a backend system using NodeJS, Google's Firestore NoSQL database and Cloud Function
- API Integrations: Xendit (Real-time payment) and Twillio (Real-time chatting feature)

**Freelance Full-Stack Developer, Suntory Beverage & Food Asia Pte Ltd, Singapore** Aug 2019 – Jan 2020

- Built RESTful API endpoints using Django REST Framework and Postgres
- Designed interactive and responsive frontend pages using Bootstrap, Axios, ReactJS, and Redux
- Built a Continuous Integration / Continuous Delivery (CI/CD) pipeline using Docker-Compose and Travis CI
- Hosted backend codes on GCP's Compute Engine and frontend codes on Google's Firebase Hosting

## PROJECTS

**[2019 Hack NTU Finalist](#)** Mar 2019

- Chosen as one of the finalists out of the 150 contesting teams in 2019 Hack NTU
- Implemented the back end for the mobile app using Smart Nation API, Android Studio and Firebase that promotes social interaction and raises awareness of the environment

**[Secure Remote Authentication using Visual Cryptography](#)** Jan 2019 – July 2019

- Led a team of 4 and implemented a secure cheque signing web application using visual cryptography and steganography, which was built using Python - Flask, HTML, CSS, Heroku, and Google Cloud Platform
- Designed the entire backend, frontend, and MySQL table schema
- Developed a noise-cancelling feature for the reconstructed image

## LEADERSHIP EXPERIENCE & CO-CURRICULAR ACTIVITIES

**Technical Lead, SIM Innovation and Networking Society (IONS)** Aug 2018 – July 2019

- Awarded the Impact Award for outstanding performance and contributions
- Organized and trained 14 members in the 3 Days Python Workshop
- Mentored 15 IONS members for a 4-month Flask web-application projects
- Advised members on front-end and back-end issues and solved team challenges

**Peer Assisted Learning (PAL) Leader, SIM** Apr 2018 – Jun 2018

- Tutored 6 students in module, Object and Generic Programming in C++
- Enabled all students to obtain at least 65 marks

**Harvard National Model United Nation (HNMUN) Trainee, SIM** Aug 2017 – Dec 2017

- Selected into 25 delegate-team out of 125 applicants after interviews and assessment center
- Researched and negotiated in an UN General Assembly diplomatic simulation in SIM

## SKILLS

**Programming:** Ruby on Rails, Python, Django, Flask, ReactJS, NodeJS, Javascript, HTML, CSS, C++, C, Java, Bash

**Database:** Postgres, MySQL, Firebase

**Others:** Linux, MacOS, Git, Docker, Travis CI, Heroku, Google Cloud Platform

**Language:** English, Mandarin, Bahasa Indonesia

## ADDITIONAL INFORMATION

- Self-studied machine learning through 3-month intensive course