Erwin Leonardy

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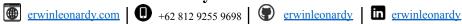
WORK EXPERIENCE

Software Engineer, Backend, Xfers, Indonesia   Oct 2020 – Present
- Spearheaded and led the first batch of Xfers' Internship Programme
- Reduced merchant dashboard queries loading time from 15 minutes down to less than 1 minute.
- Debugged complex production codes and improved logging using Datadog Logs, Datadog APM, and Rollbar
- Developed direct bank integrations using Ruby on Rails, Sidekiq, MySQL, and Redis

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 Twilio (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 Deployment (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

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

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: MySQL, PostgteSQL, Firebase
Others: Linux, MacOS, Git, Docker, Circle CI, Redis, Sidekiq, Datadog, Rollbar, Heroku, Google Cloud Platform
Language: English, Mandarin, Bahasa Indonesia

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