

EDUCATION

National University of Singapore (Singapore): Ph.D. Engineering

Thesis: Cohort-based Personal Comfort Models for HVAC Occupant-Centric Control

Carnegie Mellon University (USA): Master of Info. Sys. Mngmt.

Relevant coursework: Data Mining; Machine Learning; Data Structures and Algorithms

Pontifical Catholic University of Peru (Peru): B.Sc. Electronic Eng. 2009-2014

Relevant coursework: Electronic Design; Computer Architecture; Web Technologies

WORK AND RESEARCH EXPERIENCE

College of Design and Engineering, National University of Singapore

Singapore, SG 08/2018 - Present

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Phone: $+65\ 9246\ 5603$

Graduate Research Assistant (BUDSLab, SinBerBEST2)

- 08/2018 Present
- Performed unsupervised and semi-supervised learning research on Building Energy data (20 papers published, 10 first author).
- $\circ \ \ \text{Mentored 9 B.Sc. Project and Facilities Management and 1 M.Sc. Computer Science students in their theses.}$
- Created main content and assignments for MOOC Data Science for Construction, Architecture and Engineering (2021 edX Prize Finalist for Innovation in Online Teaching).
- Managed laboratory computational, local and cloud, resources used for scientific research.

VIT Initiative, LLC. (Acquired by SWORD Health)

Pittsburgh, US

Firmware & Mobile Developer

12/2017 - 06/2018

- Designed and performed demonstration of finalized wearable product on clients' site and funding events.
- Designed and developed mobile application for wearable products.
- Civil and Environmental Engineering Dept., Carnegie Mellon University

 Graduate Research Assistant, Intelligent Infrastructure Research Lab (INFERLab)

 04/2017 06/2018
 - Collaborated in DOE funded project about Building Energy Efficiency (3 papers published, 1 first author).
 - Designed and implemented a data preparation and evaluation framework with Bosch U.S. research scientists for RGBD building occupancy data.
 - Designed and programmed an AC waveform power meter based on an Atmega328p for the Raspberry Pi.

Banking Commission of the Republic of Marshall Islands

Majuro, MH

Technology Consultant

05/2016 - 07/2016

08/2015 - 12/2016

- Assessed and improved technology infrastructure and information management stack (Final Report).
- o Designed, and implemented data collection and analysis solution for the Financial Intelligence Division.

University & Public Engagement

•	Office of Student Affairs, NUS Resident Assistant and Secretary	Singapore, SG 06/2020 - 06/2022
•	Building Research Students Network, CDE-NUS President; former Treasurer	Singapore, SG 08/2019 - 07/2022
•	Office of Student Affairs, NUS Mentor at Teach with Heart@Tanglin Secondary School	Singapore, SG 07/2019 - 10/2019
•	Internet of Things Club, Carnegie Mellon University Co-founder and Technical Director	Pittsburgh, PA 06/2016 - 12/2016
_	Latino Graduate Student Association, Carnegie Mellon University	Pittsburgh, PA

SKILLS

• Languages: Spanish, English, French, Chinese

President; former Treasurer

• Programming languages: Python, SQL, JAVA, C/C++