

Naomi Leow

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SKILLS

EXPERIENCE

Developing deep learning models with PyTorch.

Data Analysis

Fullstack Web Development

API Design

Mobile native app development

PROGRAMMING

Frequently used:

Python • JavaScript • Ruby

Go • Java

AWARDS

- 2021 GovTech Impact Award
- 2015 Certificate of Distinction in Computer Security
- 2015 Certificate of Merit in Programming Languages
- 2013 NUS Student Achievement Award (Team)

COURSEWORK

UNDERGRADUATE

CS3243 Introduction to Artificial Intelligence

252-0220-00L Learning and Intelligent Systems

252-5706-00L Mathematical Foundations of

Computer Graphics & Vision

CS4247 Graphics Rendering Techniques

GRADUATE

CS5446 AI Planning and Decision Making

CS5340 Uncertainty Modelling in AI

CS5562 Trustworthy Machine Learning

CS6240 Multimedia Analysis

EXPERIENCE

EXPERIMENTAL SYSTEMS & TECHNOLOGY LAB

GOVERNMENT TECHNOLOGY AGENCY | MINISTRY OF EDUCATION

SOFTWARE ENGINEER

July 2019 - July 2022

Developed a bus tracking app prototype in Flutter and Rails.

Worked on a few Rails projects to help with Covid-19 operations.

EXPERIMENTAL SYSTEMS & TECHNOLOGY LAB

NATIONAL UNIVERSITY OF SINGAPORE | MINISTRY OF EDUCATION

SOFTWARE ENGINEER

July 2016 - June 2019

Developed SCMobile, a web application in React and Golang, that enables teachers to conduct some of their daily administrative tasks on their phones.

Designed and oversaw the development of APIs over an existing system to retrieve the data needed by our applications.

NUS STUDENT TUTOR

CS1010S PROGRAMMING METHODOLOGY (IN PYTHON)

Jan 2014 - Nov 2014

EDUCATION

NATIONAL UNIVERSITY OF SINGAPORE

Jan 2022 - Nov 2023 (expected)

MASTER OF COMPUTING - AI SPECIALISATION

NATIONAL UNIVERSITY OF SINGAPORE

Aug 2012 - July 2016

BCOMP HONOURS (DISTINCTION) IN COMPUTER SCIENCE

NUS HIGH SCHOOL OF MATHEMATICS AND SCIENCE

Jan 2006 - Nov 2011

DISTINCTION

PAST RESEARCH

DIABETES COMPLICATION PREDICTION

Oct 2022 - Sep 2023

Development of a survival analysis model for predicting the risk of diabetes microcomplications within 1 to 5 years of type 2 diabetes diagnosis.

FEW-SHOT LEARNING FOR MULTI-LABEL MEDICAL IMAGE CLASSIFICATION

Feb 2023 - Apr 2023

Using pretrained CLIP finetuned on medical data, and prototypical networks to do multilabel few shot classification of X-Ray images

SUPPORT FOR PROG MEM

Aug 2015 - Apr 2015

Implementation of a tool which transforms Arduino sketches into an equivalent form which requires less runtime SRAM by using the .progmem section of flash memory.

SONSQL: DESIGN OF A CONCURRENCY CONTROL PROTOCOL

Jan 2014 - Nov 2014

Designing an early lock release concurrency control algorithm for a known schema, with the requirement that transaction serialisability is not violated