

DAVID LE CHAN

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EDUCATION

CARNEGIE MELLON UNIVERSITY

College of Engineering, Class of 2026

Intended Major: Electrical and Computer Engineering

THE NUEVA SCHOOL (2018 - 2022)

SKILLS

- Programming in Python
- Implementing Machine Learning using Keras and Scikit-Learn
- Creating Mobile Apps using React Native and Swift
- Web Development with jQuery and PHP

SELECTED PROJECTS

RAMEN (RECYCABLE AUTO-MATIC EXOTHERMIC ENVIRONMENTALLY-SUSTAINABLE NOODLES)

August 2019 - June 2022

Exploring a project to develop a self-contained, self heating and environmentally sustainable ramen noodle package. Elements include chemistry experiments for safe, cost-effective, exothermic reactions to heat the noodles and materials science to select environmentally-friendly compostable packaging.

Awarded the Joey Kovacevich Innovation Fellowship, which sponsors innovative projects for social good, in Spring 2020.

COVID-19: A BOOK FOR KIDS BY A KID CHILDREN'S BOOK

May 2020 - February 2021

covidbookforkids.org

Wrote and published a picture book to help parents explain to their young children the reasons why we are taking all the important measures we are to reduce the effects of the virus and the promise of the vaccines developed to immunize against COVID-19.

MACHINE LEARNING MODEL FOR TRAIN DELAYS

November - December 2019

Inspired by the potential economic and environmental benefits of public transit, developed machine learning model approaches to understanding train delays in the United States. Trains release nearly 40 teragrams of CO₂ per year, a large portion of which comes from engines at idle. By reducing the amount of time that trains are delayed (and idling), the amount of carbon emissions trains make can be reduced.

EXPERIENCE

TAU MOTORS PROGRAMMING AND CIRCUIT BOARD DEVELOPMENT INTERN

June - August 2022

Helped develop, prototype, and test circuits for Tau Motors, a startup using a combination of software simulation and hardware innovations to build more efficient wound-field electric motors. Also built an inventory management system to simplify and accelerate hardware development.

VESTABOARD PROGRAMMING INTERN

June - August 2021

Developed the Word-Of-The-Day "installable" (software plugin) for Vestaboard, a startup building internet-connected split-flap displays meant for cleaner and more simple messaging. Built many first time installable features, including RSS feed integration, pagination, and progress bars.

UCSF BAKAR COMPUTATIONAL HEALTH SCIENCES INSTITUTE DATA SCIENCE INTERN

June - August 2020

Developed pre and post-processing algorithms to augment Philter, a program designed to remove private health information from clinical notes, making those notes more widely available to medical researchers.

ENGLISH TEACHER, TAIWAN

June - August 2018

Taught English to underserved elementary school kids, particularly in rural Taiwan. Developed curriculum with an emphasis on learning engagement. Taught social-emotional learning and worked on community development.