

Zachary Canoot (They/Them)

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OBJECTIVE:

Advance the human-technology interface via optimized peripherals and edge ML models to increase the efficiency, and thus sustainability, of our world.

EDUCATION

B.S. in Computer Science

The University of Texas at Dallas – Richardson, TX

Aug 2019 – May 2023

GPA 3.868/4.000

NOTABLE COURSES

CS Capstone:

Project Management, Fullstack Development

Introduction to Machine Learning:

RNN, CNN, K-Means, Data Normalization

Natural Language Processing:

NLTK, spaCy, TextBlob

Entrepreneurship and Innovation:

Refining a Startup, Basic Business Knowledge

Extras:

C/C++ Programming UNIX Environment
Professional & Technical Communication

Software Engineering
Operating Systems Concepts

Skills Gained:

SKILLS

Tools & Frameworks:

Numpy, Pandas, Git, Bash, React, Express, Node JS, React, Next.js Keras,
SciKit-Learn, TensorFlow, ChatGPT API

Programming Languages:

Python, C++, C, HTML/CSS, Java, JavaScript, Typescript

Operating Systems:

GNU/Linux, Windows

PROJECTS

Fullstack Development - MechaSense Report Generation

January 2023 – Present

Tools & Skills: MongoDB, React, Express, NodeJS, Project Management

- Aggregate data from HVAC IoT devices to regular reports
- Regular meetings with other developers on design/requirements
- Point of contact with MechaSense co-founder

Embedded Software – Various Keyboard Builds

Tools & Skills: C++, C, ZMK, Docker, QMK

- Successfully used the ZMK Dockerized toolchain using WSL
- Combed through ZMK forks for extra features and drivers
- Understand the web QMK configurator (and its clunkiness)

Image Classification – Rice

November 2022

Tools: Keras, Numpy, Pandas, Google's MobileNetV2, Google Colab

- Imported large image database into numerical dataset
- Fine tuned CNN and RNN to produce high accuracy results
- Used transfer learning using Google's MobileNetV2

WORK EXPERIENCE

Insomnia Cookies

August 2022 – Present

Shift Lead: Responsible for managing the back and front of house

ACTIVITIES & HONORS

Comet Keyboards – Member

May 2022 – Present

A student org dedicated to sharing premium keyboard builds and meet ups to test parts

Women in Cybersecurity – Member

May 2021 – Present

Dean's List

Spring & Fall 2021

Academic Excellence Scholarship

August 2019

Quality Assurance Organization – Member

May 2022 – Present