

KODE CREER

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EDUCATION

Utah Valley University Orem, UT **2024**
Bachelors in Computer Science / Overall GPA: 3.84 / Year: Junior
Coursework: Data Structures and Algorithms, Computer Architecture, Web Programing, Software Engineering, Computer Networks, Discrete math, Computational Theory

SKILLS

Programming Languages: Python, Swift, Javascript, Bash, HTML, CSS, MySQL, and C++
Technologies: Pytorch, Tensorflow Keras, Flask, FastAPI, Pandas, Numpy, Git, Docker, Swift UI, UIKit, React JS, Node JS, Node Express, NextJS, AWS
Spoken Languages: Spanish - Conversational

EXPERIENCE

The Church of Jesus Christ of Latter-day Saints **11/2019 - 11/2021**
Mission Finance Secretary - Technology Specialist Los Angeles, CA

- Created an automated workflow for office tasks using Python to significantly increase productivity to keep track of finances in an excel file
- Bills manually paid per month went from over 400+ bills to around 5 bills
- Transitioned payments from manual to online which resulted in cost savings on utility expenses.
- Lead transition of moving the financial processes online to adjust to Covid-19 Restrictions

UHSSA Baseball Umpire **11/2017 -**
current
Baseball Umpire Utah

- Managed crowd and kept the game running in an orderly manner
- Learned how to handle high stress situations

Utah Valley University **1/2023 - current**
AI Research Utah

- Using Reinforcement learning to train AI agents for smart home solar energy
 - Being mentored by an assistant professor
 - Prepared grant proposal and planned Scrum sprints and milestones
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PROJECTS

Subreddit Title Generator AI

Tools: Python, Pytorch, Torchtext, pandas

- Uses an AI trained to create titles based on the subreddit and optional starting text
- Connected to Reddit API to gather data
- Used Pandas to organize it into a PyTorch Dataset and standard tokenization techniques for preprocessing data

Dog Scanner - Mask-R-CNN

Tools: Python, Pytorch, UDP Socket, OpenCV, Onnx, Flask

- Deployed machine learning model in Onnx
- Detects my dog where he is on the screen or not
- Created additional utilities to display masks over images
- Live streamed video data to browser to view

Fully Autonomous Pillow Follower Robot Car

Tools: Python, Pytorch, UDP Socket, OpenCV, Onnx, Linux, GCP, Fusion 360, Docker

- Deployed machine learning model in Onnx in Docker container

- Trained machine learning model using Pytorch to aid pathfinding for car
- Implemented PID control for steering and speed
- Machine learning model helps predicts path to traverse house floor

PLAYFLIX : A Video Streaming Application

Tools: Javascript, React JS, Node JS, HTML, CSS, and Node Express

- Video streaming service which streams video from a server
- Created REST API for video metadata
- Http Live Video Streaming implemented in Node JS Express.

Tweet API : A Twitter Backend Clone

Tools: Python programming language, Flask, Flask SQLAlchemy, MySQL

- Social media Rest API design based on Twitter that stored data in a MySQL database
- Email verification implemented from scratch
- Unit tests to make sure the API works and save time testing.

Temple Landmarks: A Navigation IOS app for Finding Temples

Tools: Swift programming language, UIKit, and Mapkit

- Pulled up and gave directions to Temples throughout the world.
- View rendered routes to the temple that are updated if you go the wrong route.
- Gives you basic information such as where it is at and the link to the original website for more information.
- Tells you the nearest temple to your location

Image Resizer Tool : Website for Resizing Images

Tools: Python, FastAPI, HTML, CSS, Javascript

- Simple image resizing tool that resized images according to input
- Takes in any kind of image file and supports Iphone photos (.Heic files)
- Allows me to optionally set a naming pattern for multiple files
- Sends data to the server and browser downloads all the resized images as a zip file.

OPEN SOURCE

Webots - Open Source Contribution

- Coordinated with CEO of Cybertronics inc. to help troubleshoot Apple Silicon errors with robotics simulation software
- Was able to solve solution and wrote up documentation deployed on their website documentation

Go-Vector - Creator of Open Source Library for Golang Programming Language

- Released open source library that implemented similar functionality to C++ vectors
- Added functional programming features common in languages like Javascript
- Programmed in Golang

ACCOMPLISHMENTS

- UVU Dean's List Fall 2022
- Boy Scouts of America - Eagle Scout Award