

PATGIO KWOK

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github.com/Patgiok · patgiok.github.io/portfolio-site/

TECHNICAL SKILLS

| | |
|---------------------------|--|
| Languages | Typescript, Ruby, Java, C++, C# |
| Frontend | React, Redux, Hotwire |
| Backend | Ruby on Rails, PostgreSQL, Express, Prisma |
| Experience with | Azure, Redis, Bootstrap |
| Project Management | GitHub, Agile Scrum |

PROJECTS

REDDIT CLONE

WEB DEVELOPMENT

- Clone of Reddit, including logins and a dynamic webpages
- Built with Ruby on Rails for back-end practice
- Other features include Communities, Trending Posts and Voting System

CAR OWNERSHIP APP

WEB DEVELOPMENT

- A Web App that keeps track of people and what cars they own
- Frontend made with React and Redux with full custom CRUD operations
- Backend made with Ruby on Rails API

SORTING VISUALIZER / PATHFINDING VISUALIZER

WEB DEVELOPMENT

- A step-by-step visualizer for various pathfinding and sorting algorithms
- Created to refresh my knowledge of algorithms and web development
- Built with React to experience and learn different front-end technologies

HANDWRITTEN-NUMBER RECOGNIZER

NEURAL NETWORK

- Trains on 10,000 sample hand-written pictures
- Takes hand-written user input and guesses a number
- Written in C# with data provided by The MNIST Database

JPEG & MPEG COMPRESSOR

DIGITAL PROCESSING

- Term project that followed the development of JPEG, MPEG and other video compression standards
- Utilized and experimented with Huffman, RLE, LZW and arithmetic compression techniques
- Reinforcing knowledge of C# and Digital Processing techniques

EDUCATION

BRITISH COLUMBIA INSTITUTE OF TECHNOLOGY

SEPT 2019 - JAN 2022

DIPLOMA, COMPUTER SYSTEMS TECHNOLOGY

- Digital Processing Option
- Hands on experience with web development, object-oriented and procedural languages
- Learned industry standards for coding and project management