PATGIO KWOK

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TECHNICAL SKILLS

Frontend	Typescript, Javascript, React, Redux, Hotwire, ThreeJs, JQuery
Backend	Ruby on Rails, PostgreSQL, MySQL, Prisma, PHP, Node
Experience With	C#, C++, Java, Hotwire, Redis, Unity, Git, Agile Scrum

EXPERIENCE

ARTONA   MAR 2022 – MAY 2022
SOFTWARE DEVELOPER INTERN
- Collaborated with the UX, QA and development teams to design and develop features for their mobile site
- Designed data models and integrated them with RESTful JSON APIs for the Rails backend server
- Contributed to daily agile scrum meetings, code reviews, technical documentation and sprint planning

PROJECTS

REDDIT CLONE
WEB DEVELOPMENT
- Clone of Reddit to practice Authentication and Authorization
- 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 showcasing fullstack development
- 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
- Built with React to experience and learn different front-end technologies

HANDWRITTEN-NUMBER RECOGNIZER
NEURAL NETWORK
- Trains on 10,000 sample hand-written pictures, data provided by the MNIST Database
- Takes hand-written numbers as input from a user and guesses a number
- Written in C# with Win-Forms in Visual Studio.

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   JAN 2018 – JUNE 2021
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