Kurt Choi

Software Engineer / Web Developer

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EDUCATION

University of Waterloo | Bachelor's Degree in Computer Science   Graduation in June, 2021 (Expected)

Relevant Courseworks

- Object-Oriented Software Development / Logic and Computation / Data Structures and Data Management / Computer Organization and Design / Computer Networks / Algorithms / Operating Systems / Numerical Computation / User Interfaces / Introduction to Database Management / Introduction to Artificial Intelligence / Foundations to Sequential Programs / Applied Cryptography

PROJECTS

kDrive | React/Bootstrap-based Cloud Storage Application   Feb, 2021

- React-Bootstrap/JavaScript has been used as basic framework
- Google's Firebase platform has been used for user authentication and data storage
- React's Hooks API has been used throughout various parts of the application and Context API has been used exclusively for handling authentication
- Fully functioning authentication, file upload and directory tree

kurtchoi.dev | Personal portfolio website   Feb, 2021

- Combination of React/JavaScript/SCSS has been used
- Various React libraries were used appropriately to enhance user experience
- Framer Motion library used to create various transition animations and effects

The Royal Game of Ur AI | Artificial Intelligence agent for a board game   Dec, 2020

- A collaborative project to create an Artificial Intelligence agent for the oldest known board game in history, The Royal Game of Ur
- Used Genetic Algorithm approach with standard cross-over and mutation function
- 10 separate gene values were given to each agent that each represent the agent's priority on certain aspects of the game that are combined to determine their next move
- Crossover and mutation functions are applied to these agents to evolve over generations
- Final resulting agent showed over 95% winrate against agents with random heuristics

SKILLS

Programming

- Languages: Python, C, C++, JavaScript (ES6), TypeScript, CSS3, HTML5, Scheme
- Frameworks and Libraries: React, Redux, Bootstrap, jQuery, SQL, REST APIs

Tools/Misc

- Tools: Git, Linux, Bash, Sass, RegEx, LaTeX
- Misc: Photoshop, Word, Excel

CERTIFICATIONS

Responsive Web Design Certification | freeCodeCamp.org   Jan, 2021

Basic HTML and HTML5 / Basic CSS / Applied Visual Design / Responsive Web Design Principles

JavaScript Algorithms and Data Structures Certification | freeCodeCamp.org   Feb, 2021

ES6 / RegEx / JavaScript Data Structures / Object-Oriented Programming / Functional Programming

Front End Libraries Certification | freeCodeCamp.org   Feb, 2021

Bootstrap / jQuery / SASS / React / Redux