

Kurt Choi

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EDUCATION

UNIVERSITY OF WATERLOO BCS IN COMPUTER SCIENCE

Degree Requirement Complete
Degree Confer Date | June 2021

LINKS

<https://kurtchoi.dev/>

Github:// [Hintful](#)

LinkedIn:// [kurtchoi](#)

SKILLS

PROGRAMMING

Proficient

Python • React • CSS3 • HTML5

C++ • JavaScript • \LaTeX

Experienced

TypeScript • Java • C • SQL • Git

ES6 • Sass

Familiar:

Node.js • Express • jQuery • API

Redux • Flask

COURSEWORK

COMPUTER SCIENCE

- Algorithms
- Applied Cryptography
- Computer Networks
- Computer Organization and Design
- Data Structures and Data Management
- Designing Functional Programs
- Elementary Algorithm Design and Data Abstraction
- Foundations of Sequential Programs
- Introduction to Artificial Intelligence
- Introduction to Database Management
- Logic and Computation
- Numerical Computation
- Object-oriented Software Development
- Operating Systems
- User Interfaces

MATHEMATICS

- Calculus
- Introduction to Combinatorics
- Introduction to Differential Equations
- Linear Algebra
- Probability
- Statistics

ABOUT

I am a **soon-to-be Computer Science graduate** from University of Waterloo. I started learning Web Development in January, 2021, and soon **fell in love with the possibility of Web Development**. Being an **avid learner**, I'm continuing to learn various related technologies and experimenting with them, **striving to become a better developer**.

PROJECT

KDRIVE | REACT-BASED CLOUD STORAGE APPLICATION

Feb 2021 | React • JavaScript • Bootstrap • Firebase • CSS

- Utilized Google Firebase for user authentication and Cloud Firestore to store users' files and directories data.
- React's Hooks/Context API have been used appropriately throughout the application
- Application features fully functional user authentication, file upload, and custom nested directories
- Project is deployed at kurtchoi.dev/kDrive

CONWAY'S GAME OF LIFE

REACT-BASED CONWAY'S GAME OF LIFE SIMULATION

Feb 2021 | React • TypeScript • CSS

- Inspired by a random fascination of a rather simple algorithm exploding with exciting action
- Conway's Game of Life is simulated on a 120 by 50 grid where the end of the grid wraps-around to the other side of the grid
- Designed a unique scoring-system that evaluates score of initial grid placements by calculating the number of new cells reproduced in a limited number of iterations.
- Project is deployed at kurtchoi.dev/game-of-life

BABBLE | AN INTERACTIVE CHATTING APPLICATION

Feb 2021 | React • JavaScript • Firebase • Chakra UI • CSS

- Babble is a chat-application built with React and Google's Firebase platform.
- Has a unique feature where users of the application are awarded with **points** when they send messages. These points allow them to level-up, which grants them a new badge which shows up with their avatar.
- User authentication is implemented with Google Firebase; User information, including their points data, are stored in Cloud Firestore.
- Project is deployed at kurtchoi.dev/Babble

CERTIFICATIONS

RESPONSIVE WEB DESIGN CERTIFICATION | [FREECODECAMP.ORG](https://freecodecamp.org)

Jan, 2021

JAVASCRIPT ALGORITHMS AND DATA STRUCTURES

CERTIFICATION | [FREECODECAMP.ORG](https://freecodecamp.org)

Feb, 2021

FRONT END LIBRARIES CERTIFICATION | [FREECODECAMP.ORG](https://freecodecamp.org)

Feb, 2021