Simon JinLin Cen

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EDUCATION

University of Toronto   **Toronto, Canada**
Bachelor of Applied Science in Computer Engineering   Expected Graduation: April 2024

WORK EXPERIENCE

Microsoft Cloud Computing and AI Part-time Assistant   June 2021 – Present
- Converted speech to text from videos using Azure Logic Apps and Video Analyzer and placed the content into OneDrive.
- Verified the development process of Azure Defender for IoT and published articles and PPT about this latest technology.
- Analyzed best practices for third-party developers to develop user-friendly apps on Microsoft Teams

ENGINEERING PROJECTS

To-do App Full-stack Developer   June 2020 – August 2020
www.listnotes.me | www.github.com/simoncen/todo-app
Trello-like mini to-do list full-stack web application that helps 160 active users manage their daily tasks as of this date.
- Developed the **React**-built frontend with components from **Material-UI** and manipulated states with **React-Redux**.
- Used **passport-jwt** to carry out the authorization and authentication process.
- Developed **Rest APIs** with **Express.js** and tested them with **Postman.**
- Engineered the database with **MongoDB** to manage user's to-do lists' data.
- Utilized **Mongoose** library for **Node.js** to access MongoDB.

Smile Video Chat App Full-stack Developer   Jan. 2021 – Present
Zoom-like mini video chat web app that allows users to video chat with whoever they want.
- Developed the front-end using **EJS** templating language with embedded **JavaScript**.
- Utilized **Express.js** and **Socket.io** in the backend to develop communication between the servers.
- Created unique room numbers for up to 20 users to chat in a specific room at the same time using **uuid**.
- Used **PeerJS** to establish the connection between clients in order to implement **WebRTC.**

Covid-19 Tracker App Front-end Developer   Dec. 2020 – Jan. 2021
www.cvirustracker.tech | www.github.com/simoncen/Covid-19-Tracker
Coronavirus tracking web application that collects data regarding infected, deaths, and recovered cases from over 300 countries and presents them to users through graphics and numbers.
- Built the frontend using **React** along with components from **Material-UI**.
- Designed graphics and animation with **Chart.js** and **react-count-up**.
- Fetched data from https://covid19.mathdro.id/api with **axios**.

Portfolio Website Full-stack Developer   Nov. 2020 – Dec. 2020
www.simoncen.ca
Personal portfolio website that allows visitors to view the owner's experience through the presentation of cards and to interact with the owner through email. The website attracts viewers from over 20 cities after it was launched for a week.
- Designed the frontend using **React** with components from **React-Bootstrap**.
- Added animation using **react-spring** and routing system with **react-router**.
- Used **Express.js** and **Node.js** in the backend for developing **REST APIs** to extract email messages to the server.
- Utilized **SendGrid** to send back the messages to the owner.

TECHNICAL SKILLS

- **Computer Language Skills:** Python, Java, C/C++, Javascript, HTML, CSS, XML, EJS, MATLAB, Verilog
- **Frameworks/Libraries**: Express.js, React.js, Redux, WebRTC, Socket.io, React-Bootstrap, React Spring, Material UI, Mongoose, Validator.js, Chart.js, Peer.js, React Router, Bootstrap, node.bcrypt.js, jwt-decode, morgan,
- **Database/SW Tools:** Azure, MongoDB, Node.js, Postman, Heroku, Google Analytics, Git, Namecheap, Passport.js, body-parser, CORS, Rebrandly, Datamuse API, Axios, SendGrid API, nodemon, Linux