Colin Lin

125 Highhill Drive, Toronto, ON M1T1N8

(647) 470-9183| colin.lin@mail.utoronto.ca| https://www.linkedin.com/in/colin-lin-2001/ | My Portfolio

Skills and Abilities

- Strong understanding of Object-Oriented Java demonstrated by developing Password Manager
- Experience with no-SQL databases such as MongoDB and backend development with NodeJS
- Proficiency in HTML5, CSS3 and JavaScript demonstrated through the development of several successful web applications
- Strong knowledge of modern front-end frameworks such as Bootstrap, React, Gastby and GraphQL
- Familiarity with integrating RESTful web services, developing backend APIs and handling JSON data
- Experience with GIT version control and best programming practices
- Experience with C# scripting in Unity and developing for mobile platforms through Recycle Rush
- Proficiency in Java, Android development and Android Studio through developing a calculator app
- Robust teamwork and verbal communication skills demonstrated through leading and organizing lessons for YMCA members as an assistant aquatics instructor

Education

University of Toronto Scarborough   September 2019 – Present

Honours Bachelor of Science, Computer Science Co-op

Projects

CourierU   May 2020 – Present

Freelance, Toronto, ON

https://courieru.herokuapp.com/

- Developed a web app for foodbanks to coordinate volunteer deliveries during the COVID-19 pandemic
- Generated optimized delivery routes and map visuals by integrating Mapbox REST API with frontend
- Simplified data formatting and manipulation by using the non-relational MongoDB database
- Carefully designed backend API to maximize code reuse, performance, and functionality

Success Stories of New Canadians   November 2019 - Present

Freelance, Toronto, ON

https://success-stories-of-new-canadians.netlify.app/

- Designed a modern, and responsive web application using React and Gatsby frameworks, as well as HTML, and CSS3
- Reduced loading times and data fetching redundancies using GraphQL queries
- Implemented a low-cost and scalable hosting solution using Netlify CMS
- Organized group meetings and oversaw the progress of other team members

Password Manager   January - March 2019

Victoria Park Collegiate Institute, Toronto, ON

- Managed project workflow effectively and delivered final product ahead of schedule
- Designed a GUI using Object-Oriented Java allowing for a simple and intuitive user experience
- Carefully designed Java classes to maximize code reuse and reduce code complexity while maintaining data encapsulation
- Debugged problematic code without affecting the main project by unit testing on separate branches using GIT version control

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Timetable Builder   August 2019 - Present

Freelance, Toronto, ON

http://timetablebuilder.tk/

- Developed a web application that helps students build a timetable for their courses
- Intuitive interface, modern aesthetic and reduced development time achieved through using jQuery and Bootstrap Libraries
- Optimized performance and implemented offline functionality using JavaScript and jQuery
- Accumulated small user base and received positive feedback

Recycle Rush   March 2019 - Present

Freelance, Toronto, ON

https://play.google.com/store/apps/details?id=com.ColinLin.RecycleRush&hl=en

- Developed a mobile game that educates youth about recycling in an engaging way
- Designed original game graphics, UI, and textures in Photoshop
- Created in Unity engine with code written in C# allowing for cross-platform support and faster development
- Received positive feedback from beta testers and accumulated over 100 downloads within the first month of release

Calculator App   January 2019 – March 2019

Freelance, Toronto, ON

- Developed a lightweight and modern scientific calculator application in Java using Android Studio
- Catered the user interface for mobiles phones and tablets using Android Studio UI tools
- Implemented history functionality with abstract data structures reduce complexity and accelerate development
- Utilised Android Studio developer tools to develop an efficient method of debugging code

Work Experience

Math and Science Tutor   September 2019 – Present

Tutor Doctor of Scarborough

- Elevated student confidence in mathematics through foundation-focused teaching and positive motivation
- Improved student test scores by 10% by catering towards student learning styles and individual student needs
- Ensured a safe a comfortable environment with students, by addressing concerns, exhibiting empathy and understanding the students' situation

Aquatics Assistant Instructor   September 2017 – June 2019

Scarborough Town Center YMCA

- Collaborated with instructors to organize swim lessons catered towards beginners
- Helped students overcome their fear of deep-water swimming by building their stroke form and technique
- Improved student time swim results through effective verbal communication and constructive feedback