Colin **Lin**

📱 (+1) 647-470-9183 | ✉ colin.lin@mail.utoronto.ca | 🏠 colinlin.vercel.app | 🐙 l3n0ire | 💼 colin-lin-2001

Education

University of Toronto   *Toronto, ON*
Honours Bachelor of Science in Computer Science   *September 2019 - June 2024*
- **GPA:** 3.92/4.0
- **Relevant Courses:** Software Engineering, Data Structures and Algorithms, Databases, Computer and Network Security

Experience

HSBC   *Vancouver, BC*
Cloud Full Stack Engineer   *December 2021 - Present*
- Developed cloud-based web apps for HSBC Wealth Compass and US Product Onboarding using **React** and **Redux**
- Engineered RESTful APIs and API Orchestration layer using **Spring Boot** and **Express.js** microservices deployed on **AWS**
- Reduced maintenance cost by 40% by migrating legacy JavaScript codebase to **TypeScript**
- Worked closely with a cross time-zone **Agile Scrum** team to support systems critical to Retail Banking across North America
- Mentored 3 new employees and interns on frontend development, API design, and advanced product knowledge

Ontario Institute for Studies in Education   *Toronto, ON*
Software Developer   *October 2021 - June 2022*
- Implemented new tools for collaborative learning software using **Angular**, **Fabric.js** and **Firebase**
- Established real-time data updates on virtual classroom whiteboards with over 30 concurrent users using **socket.io**
- Built a data collection framework for researchers to analyze classroom activity and generate reports

University of Toronto Scarborough   *Toronto, ON*
Software Developer   *September 2021 - February 2022*
- Analysed trends across global news sites by constructing data visualizations using **Python, pandas,** and **Matplotlib**
- Improved the efficiency of the Python website crawler by 50% by applying filters and caching data
- Served browser-accessible **Jupyter Notebooks** for researchers using Jupyterhub deployed on the cloud

UofT Hatchery   *Toronto, ON*
Software Engineer   *May 2021 - October 2021*
- Built time-saving dashboard features for a startup incubator program using **Vue.js, PHP,** and **WordPress**
- Designed **MySQL** database schemas to store user data and survey responses

Cineplex Digital Media   *Toronto, ON*
Software Developer   *September 2020 - April 2021*
- Led the development of **web applications** and digital signage for clients such as RBC and Scotiabank
- Adapted **HTML, CSS,** and **JavaScript** projects to serve over 30 different countries, currencies, and languages
- Automated manual waiver signing process by building a customer-facing portal using **React**

Projects

Codebook   *Toronto, ON*
React, Node.js, Express.js, MongoDB, ShareDB, Docker, DigitalOcean, nginx   *June 2022 – August 2022*
- Developed a real-time collaborative coding application for conducting technical interviews
- Configured nginx reverse proxy to perform load balancing and TLS termination

Rideshare API   *Toronto, ON*
Java, MongoDB, PostgreSQL, Neo4j, Docker, JUnit   *July 2021 – August 2021*
- Constructed Java REST APIs for a ridesharing service following the Microservices architecture
- Detected errors early in the development process by integrating JUnit tests in the CI/CD pipeline

Skills

Programming	Java, Python, C, HTML, CSS, JavaScript, TypeScript, PHP
Frameworks and Libraries	Spring Boot, Node.js, Express.js, React, Angular, Vue.js, Redux, Bootstrap, NumPy, pandas
Databases	MongoDB, MySQL, PostgreSQL, Firebase, Neo4j
Tools	Git, Jira, Docker, AWS, WordPress, Heroku, Postman, nginx, Linux