Colin **Lin**

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Experience

Konrad Group   Toronto, ON
Software Developer   *September 2023 - Present*
- Developed new frontend features for a major airline's flight booking application using **Vue.js**, impacting over 1 million users
- Built online contests and promotional pages for a major real estate client using **Next.js** and **Contentful CMS**
- Accelerated internal IT processes by 300% by automating manual tasks using **Python** and **Selenium**
- Mitigated fraudulent contest entries by implementing browser fingerprinting using **JavaScript**

HSBC   Vancouver, BC
Cloud Full Stack Engineer   *December 2021 - December 2022*
- 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 **Java 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

TalkLab   Toronto, ON
OpenAI, GPT-3, React, Node.js, Express.js, Firebase, Vite, Tailwind CSS   *January 2024 - Present*
- Developed a tool for researchers to collect data to fine-tune **large language models** and study user interaction with chatbots
- Built an **AI** chatbot to help students with social anxiety by fine-tuning **GPT-3** with custom training data using the **OpenAI** API
- Worked closely with the Computer Science and Psychology faculties at U of T to identify **LLM** research opportunities

Education

University of Toronto   Toronto, ON
Honours Bachelor of Science in Computer Science   *September 2019 - August 2023*
- **GPA:** 3.88/4.0
- **Publications**: A Systematic Literature Mapping of COVID-19 Papers in Computer Science Education
- **TA**: CSCC09 Programming on the Web
- **Relevant Courses:** Software Engineering, Data Structures and Algorithms, Databases, Computer and Network Security

Skills

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