# Gancheng Luo (Andy)

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## Work Experience

**commonsku**                                                                           **Toronto, Canada**
*Full Stack Developer*                                                                     *Jan 2023 – Now*

- Worked in an Agile development team to continuously deliver interactive and accessible features for a web-based promotional CRM platform, implemented with **React**, **Redux**, and **PHP**.
- Contributed to the technical design and development of essential application features, working collaboratively with cross-functional teams to deliver high-quality solutions that align with business requirements and customer needs.
- Initiated the development of a modernized **Confluence** documentation space, creating standardized templates for **technical design** and **project requirement** documents to streamline project management.
- Integrated Unsplash into the company's application, enabling flexible addition or substitution of image service providers, significantly enhancing the user experience.
- Optimized the codebase by refactoring legacy code (**jQuery**) with **React** and **Redux**, modernized the development workflow and improved application scalability.
- Troubleshot system bugs and optimized **MySQL** queries and controllers to enhance application performance.

**SnapPay Inc.**                                                                         **Toronto, Canada**
*Jr Front-end Developer*                                                                 *Sep 2021 – Dec 2022*

- Developed a **Vue.js** and **TypeScript**-based marketing web application, catalyzing daily user growth from 3% to an impressive **10%**.
- Designed and implemented a User Activity Tracking System and DeepLink System using **Google Analytics**, contributing to a **50%** surge in Monthly Active Users (MAU).
- Enhanced the front-end build process with **Webpack** and **Vite**, achieving a **97%** faster server boot speed and a **50%** reduction in bundle size, significantly improving developer efficiency and application performance.
- Crafted **REST APIs** for internal and external **microservices** using **Java**, **Spring Boot**, and **MyBatis**, and maintained a **CMS** using **AWS S3, AWS SNS**, and **MyBatis**, ensuring robust backend functionality.

## Projects

**PromoStandards Hack-A-Thon***: Team Ctrl+Alt+Defeat:* https://github.com/Andy8647/alexa-order-status          *Oct 2023*

- Engaged in a competitive hackathon, swiftly developing a functional **Amazon Alexa Skill** over a five-day sprint.
- Utilized **AWS Lambda** and **Alexa Skill Kit** to facilitate voice-based user interactions with the application.
- Integrated **PromoStandards SOAP API** (parse **XML**) to allow users to check their order status through voice commands.
- Implemented voice response features to audibly present order status updates to users, enhancing user experience.

**React Portfolio Template***:* https://github.com/Andy8647/react-portfolio-template          *Jan 2023 – Feb 2022*

- Evolved an existing React portfolio template, infusing new features to boost functionality and user experience; the project garnered **69** stars and **32** forks on GitHub.
- Integrated **partical.js** for dynamic backgrounds, **Google Analytics** for user tracking, and social media meta tags for enhanced sharing capabilities.
- Enabled automatic dark theme detection to align with user system preferences.
- Contributed to the open source community by sharing the code on GitHub, receiving positive feedback and appreciation from users and wrote instructions step-by-step.

## Skills

**Programming Languages**: TypeScript, JavaScript, Java, PHP          **Databases**: MySQL, MongoDB, TypeORM, MyBatis
**Frameworks**: React, Redux, Next.js, NestJS, Express.js, Node.js, SpringBoot,  RabbitMQ, Zend, Vue.js, Vite, Webpack
**Cloud Services**: AWS (Lambda, CloudFormation, CloudWatch, S3 SNS, Alexa), Google Analytics,
**Tools**: Docker, Postman, Swagger, Elasticsearch, npm, Maven, Figma

## Education

**University of Toronto**                                                                 **Toronto, Canada**
*Bachelor of Science, Computer Science, Statistics, Mathmatics*                           *Sep 2016 - Jun 2021*