

Lewis Cheung

Full Stack Developer

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Demo Prj	https://ttc-next-v2.vercel.app/		

(eligible to work in Canada without sponsorship)

Work History

Full Stack Developer | (4/2024 - Present) | [LearnFormula](#) | Markham, ON

Developed and optimised web-based solutions to enhance the online course platform, facilitating smooth course delivery for thousands of users across various professional industries like accounting & law.

- Key Contributions

- Develop AI-powered course creation tools, reducing the time needed to generate educational content by 70%.
- Integrate Twilio to enhance the sales team's ability to reach customers efficiently.
- Monitor and improve website performance, including page speed and SEO rankings.
- Decomposed large tasks in the message queue into smaller, manageable units to enhance processing efficiency.
- Migrate the backend from PHP to nextJS.

- Duties

- Develop and implement new features using React and Next14 based on Figma designs.
- Work closely with design, QA, support, and sales teams to ensure timely feature delivery.
- Contribute to mobile application development. (sometimes)

- Tech Stacks

- Backend: NextJs | BullMQ | Mysql | REST
- Frontend: React with Typescript, Bootstrap 5
- General & Infrastructure: AWS

Software Engineer III | (5/2023 - 12/2023) | [LassoMD](#) | North York, ON

- Key Contributions

- Integrated Twilio to handle Calling & Messaging service.
- Built an internal dashboard from scratch for analyzing SEO performance & Core Web Vital.
- Integrated Typesense Search Engine for fast and accurate data retrieval.

- Duties

- Worked closely with the client success team and sales team to understand the pain point of the current market and how we could address the issue.
- Integrated PubSub to break large applications into smaller but more maintainable services.
- Wrote Pact test to prevent unexpected changes that will break existing features.

- Tech Stacks

- Backend: NextJS | Python | Postgresql | REST
- Frontend: React with Typescript, Radix UI
- Testing: Pact Test, Jest, Pytest
- General & Infrastructure: Vercel, Docker, Terraform, GCP

Full Stack Developer | (11/2020 - 09/2022) | [SCMP](#)

- Key Contributions

- Developed a rich text editor for internal users to draft articles in async mode, which supports various text formatting, image sourcing, and link embedding.
- Independently implemented LiveBlog feature enabling editors from different countries to work on ongoing topics simultaneously without duplicating work.
 - [Sample article built on this feature](#)
- Replaced Drupal with our solution to save resources.

- Duties

- Designed and developed an Event-sourced backend using CQRS architecture, ensuring high availability, scalability, fault tolerance and instant replay of previous edits.
- Established and managed RabbitMQ to publish/subscribe updates for effective communication between asynchronous systems.
- Revamped the workflow of WebSocket to tackle race conditions.
- Investigated unusual CPU spikes in Kubernetes cluster to prevent unexpected downtime of applications.

- Tech Stacks

- Backend: Node.js with Express | RabbitMQ | MongoDB | Event sourcing
- Frontend: Vue with Typescript, Material UI
- Testing: Jest
- General: Docker, Kubernetes

Software Developer | (01/2019 - 10/2020) | [Prisec Limited](#)

- Key Contributions

- Designed and built an authenticator on top of OIDC protocol for hassle-free registration and login, while maintaining user anonymity.
- Implemented a highly efficient Python WebCrawler capable of automatically fetching and filtering millions of rows of targeted data daily, allowing easy analysis and processing.
- Developed and maintained automated test suite for any proposed feature changes, ensuring high-quality code and minimal bugs.

- Tech Stacks

- Backend: Golang with gRpc | Python with Flask | Mysql
- Frontend: Flutter
- Testing: Python with Pytest
- General: Docker, Kubernetes

Education

Bachelor of Engineering in Information Engineering - [CUHK](#) (Class of 2019)