

# Lewis Cheung

## Full Stack Developer

<b>LinkedIn</b>	<a href="https://www.linkedin.com/in/hoipangcheung/">https://www.linkedin.com/in/hoipangcheung/</a>	<b>Location</b>	Toronto, ON
<b>GitHub</b>	<a href="https://github.com/HoiPangCHEUNG">https://github.com/HoiPangCHEUNG</a>	<b>Email</b>	hoipang1e06@gmail.com
<b>Portfolio</b>	<a href="https://hpc-portfolio.vercel.app/">https://hpc-portfolio.vercel.app/</a>	<b>Contact</b>	
<b>Demo Prj</b>	<a href="https://ttc-next-v2.vercel.app/">https://ttc-next-v2.vercel.app/</a>		

(eligible to work in Canada without sponsorship)

## Work History

---

### Software Engineer | ( 5/2023 - 12/2023 ) | [LassoMD](#) | Toronto

*Built a comprehensive solution from scratch to elevate dental practice's patient acquisition and lead management. Seamlessly integrating marketing ROI analytics, lead flow tracking, online reviews, and real-time appointment scheduling.*

#### - Key Contributions

- Integrated Twilio to handle Calling & Messaging service
- Built an internal dashboard from scratch for analyzing SEO performance & Core Web Vitals
- 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.
- Pushed changes and releases weekly and requested comments to ensure the product is on the right track from the view of stakeholders.
- Designed data models and pipelines to ensure a reasonable data flow without compromising performance
- Integrated PubSub to break large applications into smaller but more maintainable services
- Maintained environment and deployed applications to Cloud Run with TerraForm
- Wrote Pact test to prevent unexpected changes that will break existing features.

#### - Tech Stacks

- Backend: Python with FastAPI
- Frontend: React with Typescript, Tailwind, Radix
- Testing: Pact Test, Jest, Pytest
- General & Infrastructure: Next13, Vercel, Docker, PubSub, Terraform, GCP, Postgresql, StoryBook, Graphite, highlight.io, Github, Loom, Confluence & Jira

### 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 50% on expenses annually**.

#### - 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.
- Teamed on **user-centric design strategy** in translation of **UI/UX** and business requirements into coded solutions.
- **Reviewed codes** from other peers and offered technical advice or solutions.
- Investigated unusual CPU spikes in **Kubernetes** cluster to prevent unexpected downtime of applications.
- **Integrated and maintained** third-party services such as Google, YouTube, and Twitter.
- Built **automated test suite** and script for **CI/CD**.
- Optimized performance of service & database components.
- Participated in user story analysis, solution design, and task allocation among teams.

#### - Tech Stacks

- Backend: Node.js with Express, MongoDB, RabbitMQ, Event sourcing, CQRS
- Frontend: Javascript with Vue.js & React.js, Typescript, Material UI, HTML5, CSS, Vuetify
- Testing: Python with Pytest, Javascript with Jest, Sinon
- General: Docker, Kubernetes, CI/CD, Restful API, GraphQL, Git, GitLab, GitHub, Jira, AWS(EC2, S3), Socket.io, Vuex, Redux, WebSocket, rate-limiting, Microservice, JWT, Web development, npm, Responsive, Babel, Webpack, OpenAPI (Swagger), Postman, VSCode, non-relational databases (NoSQL), Google Analytics

## 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, GORM, MySQL, Python with Flask, Redis
- Frontend: Flutter, Dart
- Testing: Python with Pytest, Selenium
- General: Redis, Docker, Kubernetes, CI/CD, Restful API, GraphQL, Git, GitLab, GitHub, Kanban, Test-driven-development, Micro service, DevOps, relational databases (SQL), Linux, Ubuntu, Single Sign-On(SSO), OAuth2.0

## Education

---

## Bachelor of Engineering in Information Engineering ( Class of 2019 )

[The Chinese University of Hong Kong](#)