

# Tatsuya Oiwa

Senior Developer at Shopify

## PROFILE

I'm a software developer with over 10 years of experience in backend development and infrastructure operations. My journey has taken me from building cutting-edge search platforms for the world's leading e-commerce brands to scaling startups in international markets. My superpower is transforming complex technical and business challenges into clear, accessible diagrams and APIs. I'm passionate about continuous learning, delivering quality work, and being a supportive team player.

## EXPERIENCE

**Senior Developer – Discovery Experience, Shopify; Toronto, ON, Canada — 2022/03–Present**

- Realtime indexing pipelines for storefront and marketplace search, handling 100K messages per second with sub-second end-to-end latency, using Kafka, Beam, Dataflow, Bigtable and Elasticsearch.
- Ruby backend powering REST and GraphQL API for storefront search, typeahead, and faceted filtering.
- Ruby on Rails backend for Shopify Search & Discovery app, allowing merchants to customize storefront search, filtering, and recommendations.

**Senior Developer – Growth, Shopify; Toronto, ON, Canada — 2021/02–2022/02**

- Infrastructure and tools for Shopify's global marketing website, shopify.com, enabling growth marketers, content editors, translators, and developers to design, build, and experiment with the website efficiently.

**Senior Backend Engineer, Quartz (joined via acquisition of NewsPicks); New York, USA — 2018/03–2021/01**

- U.S. expansion of NewsPicks, Japan's leading business news platform, later acquired by Quartz.
- Java backend for Quartz's paid subscription, personalized newsfeeds, and newsletters.

**Software Engineer, Gilt Japan, Tokyo, Japan — 2016/06–2019/02**

- Java microservices for gilt.jp, the Japanese branch of the American luxury fashion retailer Gilt, implementing features like product search, membership, and checkout.

**Software Engineer, Rakuten, Tokyo, Japan — 2010/04–2016/05**

- Migration of Rakuten's search engine from FAST ESP to a custom Apache Solr-based platform, developing self-service provisioning tools using Ruby and Java.
- Internal tools for search evaluation, supporting relevance engineers in optimizing search ranking algorithms.

## EDUCATION

Shizuoka University, Japan — Bachelor of Science, Informatics, 2006–2010

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