

Spencer Kwok

Full Stack Software Engineer

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EXPERIENCE

VPGame / LGD Gaming, Seattle — *Software Engineer*

January 2019 - PRESENT

[VPEsports](#) - Premier Destination for Esports News

- Redesigned classic React/Koa stack with Next.js server side rendering and dynamic client side routing
- Created headless React components for page layouts, schedules, and news articles of any genre

VPGame Dota2 Professional Performance/Engagement Tool

- Created interactive reusable map component that zooms, drags, and lazy loads images of different resolutions used for pinpoint accurate locations of ward placement, heatmap density of wards, and tracking player movement
- Built ban-pick simulator, real-time infographic generator, and match highlights library used by professional Esports teams globally
- Architected login microservice and user permission system for Esports teams and journalists
- Automated deploying product demos with monitoring for individual teams using Gitlab CI/CD, Kubernetes, Docker.

VPGame Dota2 Statistics - Real Time Player Statistics

- Managed global state with Redux to minimize API calls and memoise statistical analysis for charts, graphs, and tables of best performing teams, players and in-game characters
- Decreased initial page load time by 50% by introducing universal rendering, converting images to webp, uploading static files to cdn, minimizing page reflows, and importing metadata server side

VPGame Ticketing Service - Mobile Web Application

- Designed and implemented secure checkout system for purchasing tickets to events at LGD Gaming's Esports Arena which generated over \$100,000 in revenue

PROJECTS

Machine Learning Image Labeling System

- Built with HTML Canvas and allows users to upload images, tag coordinates of targets, and print or send data to MongoDB database

Front End Skills

Javascript	Typescript
React	Webpack/Babel
Redux	GraphQL
Next.js	Sass/Less
Gatsby	AngularJS

Back End Skills

Node.js	Express/koa
MongoDB	MySQL
Firebase	Postgres

DevOps Skills

Kubernetes	Docker
Gitlab CI/CD	Prometheus
Grafana	NGINX
Redis	AWS
New Relic	Jest/Enzyme

Education

University of British Columbia - 2014 | 2018
Bachelors of International Economics

- Accepted into Vancouver School of Economics' flagship program