

Kenrick Lam

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SKILLS

Languages	TypeScript / JavaScript, Python, SQL, Java, C / C++, HTML5, CSS3
Technologies	React, React Native, Node.js, Express.js, PostgreSQL, Expo, Jest, Mocha, Chai, Sinon
Tools / Misc.	Git, Jira, Docker, Kubernetes, CircleCI, ArgoCD, Google Cloud Logging, Prometheus, Postman

EXPERIENCE

Spare – Vancouver, BC **Junior Software Engineer** *Nov 2022 – Present*
Full-stack development in a large microservices codebase using TypeScript, Node.js, PostgreSQL, React, React Native

- Developed new API integrations with partnering mobility providers like Lyft and Uber for Spare Open Fleets
- Created new user interface components for Spare's web and mobile platforms that enriched customer experience
- Owned projects throughout the entire software development life cycle: eliciting requirements → technical design specification → software implementation based off design → unit / integration testing → deployment → maintenance
- Designed a monitoring script that sends ride requests from Spare's API to Lyft / Uber's APIs which has prevented 10+ production outages by alerting engineers after a certain threshold of errors is reached
- Ensured nearly 100%-unit test coverage for new features and bugfixes using libraries like Jest, Mocha, Chai, Sinon

Sophos – Vancouver, BC **Software Developer Intern** *May 2022 – Aug 2022*
Back-end development in a large microservices codebase using C, Perl, PostgreSQL

- Developed bugfixes for Sophos Firewall v19.5 for features like antivirus detection scanning
- Implemented code changes from a Docker container and ensured they passed the Jenkins CI / CD pipeline
- Automated manual testcases for features like TLS inspection and web proxy filtering, reducing overall testing effort for new code changes by 20%
- Improved user experience by populating a decryption exclusion list with known conflicting domains
- Contributed feedback to pull requests and Scrum processes like sprint planning / review / retrospective

Provincial Health – Burnaby, BC **BI Developer Intern** *Sep 2020 – Dec 2020*
Business Intelligence development in a SQL server database using T-SQL, SQL Server Reporting Services

- Developed human resources related data reports to extract data-driven insights for analysts
- Improved average runtime of SQL scripts on tables with 400,000+ records by 25% using query optimization
- Optimized the speed of a key IT workflow by 75% by creating a report that lists all employees' database permissions

EDUCATION

Simon Fraser University – Burnaby, BC *Sep 2018 – Aug 2021*

- **Major:** Computer Science, B.S. (in-major GPA: 3.48)
- **Courses:** Data Structures & Algorithms, Software Design, Web Development, Operating Systems, Networking

PROJECTS

Personal Portfolio – React, Next.js – kenricklam.com

Story Time – React, Node.js, Express.js, MongoDB – story-time-web.netlify.app

- Created a social media web application where users can view and create posts called "stories"
- Developed CRUD functionality for authenticated users via post requests to a MongoDB database
- Implemented user authentication with Google OAuth 2.0 and JSON Web Tokens with the bcrypt library

SFU Restaurant Finder – JavaScript, Node.js, Express.js, PostgreSQL – sfu-restaurant-finder.herokuapp.com

- Created a web application where users can find and review 40+ restaurants on SFU's Burnaby campus
- Took on the role of front-end developer and test developer on a team of five using Agile methodology
- Designed unit tests using Mocha.js and Chai to test CRUD methods

COVID-19 Data Mining – Python, NumPy, Pandas, scikit-learn

- Developed a data mining Python script that predicts patients' (from a public dataset) COVID-19 outcomes
- Trained classification models like XGBoost, leading to an 80% prediction accuracy on 300,000+ patients