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, increasing the total number of trips from external providers from 2,000 to 20,000 per month
- Owned projects throughout the entire software development cycle — from design, implementation, and maintenance
- Implemented a new user interface component that allows users to input text, HTML, Markdown, and images through a Markdown editor with additional features like a side-by-side preview content container
- Created 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
- Enriched Spare's Lyft integration by supporting new Lyft ride types like Lyft assisted and Lyft WAV (Wheelchair Accessible Vehicle) and ensured compatibility between a rider's accessibility settings on Spare's platform

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 test cases 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)

PROJECTS

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

Story Time – *React, Node.js, Express.js, MongoDB*
- 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*
- 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