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
Tools / Misc.	Git, Jira, Docker, Kubernetes, CircleCI, ArgoCD, Google Cloud Logging, Prometheus, Postman, ngrok

EXPERIENCE

Spare | *Vancouver, BC*   **Junior Software Engineer**   Nov 2022 – Present
- Designed a technical specification document on adding Lyft / Uber ride price estimates to Spare's operating platform that walked through multiple different solutions, and then implemented those code changes
- Implemented new API endpoints following the OpenAPI Specification (OAS) standard to fulfill product needs
- Developed new user interface components for Spare's web and mobile platforms that enriched customer experience
- Owned larger features that required discussion between stakeholders and successfully launched them to production
- Lead retrospective meetings to discuss how to excel as a team – coding, communication, teamwork, having fun, etc.

Sophos | *Vancouver, BC*   **Software Developer Intern**   May 2022 – Aug 2022
- Developed bugfixes for Sophos Firewall v19 for features like antivirus detection scanning using C
- 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 using Perl, reducing overall testing effort for new code changes by 20%
- Improved user experience by populating a decryption exclusion list with known conflicting domains using SQL
- Contributed feedback to pull requests and Scrum processes like sprint planning / review / retrospective

Kids' Shield Services | *Vancouver, BC*   **Web Developer Intern**   *Jan 2022 – Apr 2022*
- Developed responsive front-end components on Kids' Shield's website using JavaScript and Joomla CMS
- Utilized page caching and image compression to reduce average page load times by 40% (1.3s to 0.8s)
- Improved website's SEO by optimizing its performance, metadata, and content, which brought the website to the front page of Google and increased its average daily impressions by 500% (50 to 250)

Provincial Health | Burnaby, BC   **BI Developer Intern**   *Sep 2020 – Dec 2020*
- Developed employee-related data reports using SQL and SSRS 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 employees' DB permissions

EDUCATION

Simon Fraser University | *Burnaby, BC*   *Sep 2018 – Aug 2021*
- **Major**: Computer Science, B.S. (in-major GPA: 3.48)
- **Programming Courses**: Data Structures & Algorithms, Operating Systems, Networking, Web Development

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