Kenrick Lam

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Skills

Languages	Python, Java, SQL, C, C++, JavaScript, HTML5, CSS3
Technologies	React, Node.js, Express.js, Spring Boot, JUnit, MongoDB, PostgreSQL
Tools / Misc.	Git, Docker, Jenkins, Jira, Confluence, SonarQube, Wireshark, CI / CD, Agile / Scrum

Experience

Sophos, Vancouver BC　　　　　　**Software Developer Intern**　　　　　　May 2022 – Aug 2022
- Developed features and bugfixes with strong unit testing (>= **90%** coverage) for Sophos Firewall v19 using C
- Automated manual testcases for Sophos Firewall's TLS inspection and web proxy filtering features using Perl, reducing the overall testing effort for new and existing code 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
- <u>Leveraged knowledge</u> in containerized development with Docker, CI / CD workflow with Jenkins, Git, Jira

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
- Reduced average page load times by **40%** (**1.3s to 0.8s**) using page caching and image compression
- Increased website's SEO score by **30%** by optimizing performance, metadata, and web content which brought the website to the front page of Google and increased average daily impressions from **50 to 250**
- <u>Leveraged knowledge</u> in website performance optimization, SEO, debugging with Chrome Developer Tools

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
- <u>Leveraged knowledge</u> in implementing SQL scripts with SQL server, gathering requirements from clients

Education

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

Projects

Story Time – *Stack: React, Node.js, Express.js, MongoDB*　　　　　　　　　View Website
- 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
- Handled user authentication with Google OAuth 2.0 and JSON Web Tokens
- Implemented pagination and image compression to reduce average page load times by over **50%**

SFU Restaurant Finder – *Stack: JavaScript, Node.js, Express.js, PostgreSQL*　　　View Website
- 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
- Implemented an automated test suite using Mocha.js and Chai to test CRUD methods

SFU Course Planner – *Stack: JavaScript, Java, Spring Boot*
- Developed a REST API in Java that parses SFU course data from a CSV file and stores it on the server
- Implemented CRUD methods using Spring Boot, so users can modify their course schedule on the client

COVID-19 Data Mining – *Stack: 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