Jason Gill

Software Engineer

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Professional Experience

Software Engineer Intern Jan 2024 – Aug 2024 | Burnaby, Canada
Clio

- Streamlined transaction processing for over 50,000 law firms by developing the Payments component with built-in Stripe integrations, transitioning away from the legacy payments infrastructure
- Assured transaction reliability for over $10 million CAD in daily processing volume by leading incident response efforts to diagnose and resolve critical issues
- Achieved compliance with multi-regional financial regulations by refactoring Payments flows to enhance security and align with industry standards

Software Engineer Intern May 2022 – Aug 2022 | Toronto, Canada
Ultimate Kronos Group

- Led the Custom Branding project, developed with Angular and Java Spring Boot, empowering customers to personalize their product suite
- Reduced page load times by 12.5% by enhancing the UI with in-house Design Language System (DLS) components
- Implemented state management with NgRx and scalable APIs via Spring RESTful services
- Attained > 85% class coverage by leveraging the JUnit, Jasmine, and Selenium testing frameworks

Projects

Finance Tracking Application (React, Java)

- Developed an intuitive budget-tracking application using React, Java Spring Boot and MySQL that allows users to track recurring monthly expenses, log transactions, and filter them by month, year and expense
- Structured HTTP requests with Axios and handled them with Spring RESTful API services
- Deployed via Amazon Web Services using AWS Elastic Beanstalk, S3, and RDS

Computational Blockchain (Rust)

- Created a Proof-of-Work (PoW) blockchain application in Rust with the SHA-256 hashing algorithm
- Implemented a producer-consumer work queue to concurrently mine blocks by distributing the workload among multiple worker threads
- Optimized resource allocation by draining the work queue after computing the first eligible proof

UFC Predictive Modelling (Python)

- Built a machine learning (ML) model using the k-th nearest neighbour algorithm to predict fight winners with a 70% accuracy rate using Python and the Scikit-learn library
- Forecasted fighters' win-loss ratios by developing an additional ML model that achieved a coefficient of determination (R^2) of 0.96, demonstrating high predictive power

Skills

Languages:

- Java, Python, Ruby, C, C++, JavaScript, TypeScript, SQL, Scala, Rust, MATLAB, Haskell

Frameworks & Libraries:

- Java Spring Boot, ReactJS, Angular, Rails, JUnit, RSpec, Selenium, Jasmine, Hotwire (Turbo), Pandas, Numpy, Scikit-learn, Seaborn, Axios, TensorFlow (Keras), NgRx, RxJS

Development tools:

- Git, MySQL, Twilio, Docker, Maven, Postman, Jupyter Notebook, Spark, Figma, Balsamiq, Amazon Web Services (Elastic Beanstalk, S3, RDS)

Education

B.Sc. in Computer Science Sep 2020 – May 2025 | Burnaby, Canada
Simon Fraser University