

KEVIN GEORGE MATHEW

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EDUCATION

University of Victoria

Bachelor of Engineering in Software Engineering | CGPA 3.9/4.0

Sep. 2019 – Dec 2023

Victoria, BC

RELEVANT COURSEWORK

- Data Structures
- Software Methodology
- Data Mining
- Database Management
- Artificial Intelligence
- Software Security
- Software Architecture
- Software Testing

TECHNICAL SKILLS

Languages: Python, C, C#, Objective-C, Golang, Java, JavaScript, Typescript, SQL

Developer Tools: Git, Docker, Valgrind, Postman, Wireshark, Figma

Technologies/Frameworks: Angular, React, jQuery, JUnit, Mockito, Cucumber, Selenium, Pytest, JMeter, K6

EXPERIENCE

Opensignal

May 2022 – Aug 2022

Software Engineer Co-op

Victoria, BC

- Developed an Apache Beam ETL job using the Dataflow runner class to generate geohashes based on country data and efficiently upload them to Google Cloud Platform's BigQuery, covering more than 100 countries.
- Optimized Big Query Monitoring job by using parallel computing and refactoring to reduce runtime of job by 35%
- Leveraged Terraform to streamline project infrastructure management, including service accounts, permissions, and overall infrastructure.

Apryse

Jan 2022 – April 2022

Mobile Engineer Co-op

Vancouver, BC

- Managed Apryse's open-source React-Native, Flutter, and Xamarin projects, ensuring updated documentation, implementing new features as per customer requests, and addressing reported issues.
- Introduced GitHub actions to automate the publishing process on pub.dev and npm whenever a new feature is implemented.
- Leveraged the Hygen Code Generator to automate the creation of custom APIs in React Native and Flutter, resulting in a 20% reduction in coding efforts for customers.

Aquatic Informatics

Sept 2021 – Dec 2021

Software Engineer Co-op

Vancouver, BC

- Orchestrated cross-regional automation for AWS RDS instance maintenance using AWS CloudFormation, elevating operational efficiency.
- Reduced the presence of credentials in the source code by 70% using AWS Secrets Manager with C3P0 in JDBC.
- Revamped the API communication between C# and Java product, resulting in a 35% efficiency boost through optimized data processing.

Peloton Technologies

May 2021 – Aug 2021

Software Engineer Co-op

Victoria, BC

- Engineered efficient C# methods for secure preauthorization, validation, and refund processing of credit card transactions through a designated gateway.
- Executed an end-to-end solution to streamline the on boarding and verification process for new businesses registering within the application.
- Refactored frontend API calls to leverage advanced Razor Page functionality, yielding heightened efficiency and performance gains.

PROJECTS

Day Trading System | Golang, React, Docker, Docker Swarm, Redis

January 2023

- Collaborated with a team of 5 to develop a full stack scalable day trading system that can handle 10000 users.
- Built using Microservice Architecture with Golang in the Backend and React in the Frontend.
- Utilizes Redis for caching frequently used stock data with a time to live (TTL) of 45 seconds.
- Managed servers using Docker Swarm for container orchestration and Nginx for load balancing.