

FILIPO MARCELLINO

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TECHNICAL SKILLS

Languages: TypeScript, JavaScript, HTML/CSS, Java, Python, C/C++, SQL (Postgres), Assembly, Haskell, Rust
Frameworks/Libraries: React.js, Node.js, Express.js, Next.js, Bootstrap, Tailwind, Chai, Mocha, Spring
Developer Tools: MongoDB, Git, VS Code, Firebase, IntelliJ, PyCharm, Eclipse, Heroku, Vercel, MacOS, Unix, Linux

WORK EXPERIENCE

- Software Engineer Intern** | *Typescript, AWS, Node.js, Cucumber* May 2023 – Current
Aquanow Vancouver, BC
- Collaborated with a team to deliver **TypeScript**-driven back-end features for Aquanow's trading platform
 - Deployed efficient REST API endpoints to an **AWS Lambda** function, facilitating the streamlined creation, update, and deletion of records in **DynamoDB** tables
 - Pioneered back-end lambda integration testing using **Cucumber**, adapting **Behavior-Driven Development** methods that reduced bugs and increased team productivity
 - Leveraged **AJV schema** for strict input validation, enhancing data integrity and error handling.
 - Delivered tailored front-end modifications, utilizing **React** and **Material UI**
- Computer Science Teaching Assistant** | *Java, Javascript, HTML, CSS, C++* May 2022 – May 2023
Langara College Vancouver, BC
- Offers individualized computer science tutoring for first and second-year courses, resulting in increased understanding and success among students.
 - Collaborates with multiple instructors to provide support for computer science course materials
 - Marks 80+ programming assignments every week and provides timely, detailed feedback to students

PROJECTS

- SFU Forum** | *Typescript, Next.js, Firebase, Chakra UI, Recoil* | [!\[\]\(f2fdbbba686c1099e6b2b8779766e2d3_img.jpg\)](#) [!\[\]\(b3cfbfd04368a71f4c64e073908d25d7_img.jpg\)](#) February 2023
- Launched a web-based forum for SFU students that enables seamless course-related discussions and threads
 - Utilized recoil and created **custom react hooks** to effectively manage states across different components
 - Designed a robust **NoSQL** database solution using **Firebase**, resulting in improved system performance
- Pikko E-commerce website** | *Next.js, MongoDB, Tailwind, ReactRedux* | [!\[\]\(4f8bc95274d4d489592709b569351eb7_img.jpg\)](#) [!\[\]\(68986557a06757f8727dab2acf01c000_img.jpg\)](#) December 2022
- Developed an e-commerce web application using **Next.js**, enabling customers to easily purchase salad bowls online
 - Integrated **Paypal API** to enable seamless transactions
 - Implemented a data storage solution using **MongoDB and Mongoose**, resulting in efficient data retrieval time and organized database structure
- Package Deliveries Tracker** | *Java, Java Swing, Spring boot, Gson* | [!\[\]\(3bbb1d3234ca5d7e3145ce1334035a2b_img.jpg\)](#) April 2022
- Developed a mock package tracker using **Java Swing** with proper Object-oriented methodology
 - Designed a robust **RESTful API** using Spring Boot's RestController

ORGANIZATIONS

- Permika Webmaster** | *Typescript, React.js, TailwindCSS* | [!\[\]\(e40bb48ad1470e3a14017c64c5673877_img.jpg\)](#) [!\[\]\(de28875f44a359ca6d30bbb1d9f6cdbd_img.jpg\)](#) May 2023 – Current
- Collaborated with a designer to engineer an interactive digital hub, utilizing **TypeScript** and **React**,
 - Enhanced user experience by optimizing UI animations with requestAnimationFrame, reducing layout thrashing by 30%
- SFU Indonesian Association Website Webmaster** | *Next.js, Bootstrap* | [!\[\]\(2d84cfc19096ca16fe323c530253896b_img.jpg\)](#) [!\[\]\(6b933a0050dc38b6c79d63f70c853f8d_img.jpg\)](#) May 2022 – May 2023
- Operated in a team of 3 to build a website for the Indonesian Association club at SFU

EDUCATION

- Simon Fraser University** Graduating April 2024
Bachelor of Science, Computing Science in Software Systems Burnaby, BC
- Langara College** September 2020 - April 2022
Associate of Science, Computer Science Vancouver, BC
- GPA: 3.95