Jamie Samuel

Full-Stack Developer

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Skills

Programming Languages & Technologies: JavaScript(ES6), TypeScript, HTML5, CSS3/SCSS, Python, C#, Go, Rust, PHP
Libraries & Frameworks: Node.js, ReactJS, Vue.js, Next.js, Electron, Express.js, Jest, jQuery, Tailwind CSS, .NET, Laravel
Databases & ORMs: MySQL, PostgreSQL, SQLite, MongoDB, Prisma, Mongoose
UX/UI Design: Figma, Adobe XD, Photoshop, InDesign, Illustrator
Tools & Platforms: Git, Webpack, AWS, Vercel, Heroku, Babel, GitHub Actions, Docker, Azure, ESLint, LabVIEW
Project Management: GitHub, Agile Methodology, Trello, ClickUp, Asana

Relevant Experience

VentureXPerience (VXP) ***Jan 2021 – Sep 2021***
Web Developer | Part-Time *Vancouver, BC*

- Collaborated cross-functionally with SFU students to host Western Canada's largest design-focused hackathon.
- Worked closely with the design and executive teams to implement, deploy, and maintain, the hackathon's marketing website using JavaScript (ES6), React, Next.js, and Tailwind CSS. Along with various social media platforms, the website facilitated the registration and ultimate participation of over 300+ attendees worldwide.
- Designed an effective CI/CD pipeline using GitHub Actions & AWS Amplify, which helped streamline the development life cycle, leading to faster and higher-quality releases.

Department of Chemical Engineering, University of British Columbia ***Apr 2017 – Aug 2020***
Undergraduate Teaching Lab Assistant *Vancouver, BC*

- Architected and implemented a responsive front-end LabVIEW application, which allowed chemical engineering undergraduates to monitor dissolved oxygen (dO_2) changes in real-time.
- Directed the development and improvement of various internal software tools, which enhanced the laboratory experience of 1000+ chemical engineering undergraduates.
- Developed an automated marking system for instructors and teaching assistants, using Excel and Python, which reduced lab report marking time by over 80%.
- Collaborated with two senior instructors to develop lab protocols, resulting in improved safety practices for undergraduate students and teaching assistants.

Projects

Minerva ***Jan 2022 - Present***
Open Source Project *Vancouver, BC*

- Develop a simple, performant, and hackable cross-platform Markdown editor with GitHub integration and real-time collaboration.
- Benchmarked several Markdown parsers written in Rust, Go, and JavaScript to assess potential performance bottlenecks.
- Compiled a Commonmark compliant Markdown parser written in Rust (pulldown-cmark) to Web Assembly, which led to a 4x reduction in overall parsing time.

Runik ***Sep 2021 - Present***
Open Source Project *Vancouver, BC*

- Lead a multi-disciplinary team through the design and implementation of a React web app that generates custom dictionaries, fully compliant with several e-readers, such as Kobo and Kindle.
- Leveraged Fandom and MediaWiki to build a RESTful API that generates XML-like dictionaries, which provide users with definitions of items, characters, and locations in their favourite book or universe.
- Utilized a DFS-like processing approach and exposed Node's garbage collector for manual use, which led to a 10x decrease in memory consumption during dictionary generation.

Education

University of British Columbia ***2018 – 2021***
Bachelor of Science – BSc, Computer Science *Vancouver, BC*

British Columbia Institute of Technology ***2020 – 2022***
Diploma, Full Stack Web Development *Vancouver, BC*

University of British Columbia ***2014 – 2018***
Bachelor of Applied Science – BASc, Chemical & Biological Engineering *Vancouver, BC*