Johnatan Gao

dev@johnatangao.com | Linkedin | Portfolio | Github | Gitlab

EDUCATION

Polytechnique Montréal

Montréal, QC

Bachelor of Engineering in Software Engineering (GPA: 3.7/4.0)

Aug 2019 - May 2023

Collège de Maisonneuve

Montréal, QC

DEC in Computer Science and Mathematics

Aug 2017 - May 2019

TECHNICAL SKILLS

Languages: Java, C/C++, Javascript/Typescript, C#, Python, Bash, SQL (MSSQL), HTML/CSS

Frameworks: Angular, Vue, .NET Core, Node.js, ExtJs, Jest, Cypress

Developer Tools: Git, Mercury, Docker, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, Postman

Libraries: React, Expres, Numpy, Bootstrap

EXPERIENCE

Software Engineering Intern

May 2020 - Sep 2020

Pharonyx Technologies Inc.

Montréal, QC

- Developed a REST API using .NET Core Web APIs and MSSQL to allow external access to internal databases
- Developed a web application using Sencha ExtJS to generate API tokens allowing developers to use the REST API
- Developed custom pdf annotation tools in PDFTron to allow users to annotate more efficiently
- Optimised the pdf annotation tool's startup time by 15% by updating the tool's initialization code
- Wrote unit tests and integration tests in C# using the .NET Core framework to catch bugs

Web Developer Intern

Nov 2019 – May 2020

Ludex Technologies Inc.

Montréal, QC

- Developed a pull-to-reload, and infinite-scroll web component using React.js
- Wrote unit tests in Jest to catch unwanted front-end bugs

Projects

Open Source Contributor | C/C++, HTML/CSS, Javascript, Java, Mercury

 $Dec\ 2020-Present$

• Contributed to the Firefox codebase by fixing various beginner friendly bugs in the desktop and Android version of Firefox

Lightweight Scientific Calculator | Typescript, Webpack, Web Components, Jest, Git

Dec 2020 – Jan 2021

- Developed a responsive progressive web application using Typescript with Webpack for bundling
- Achieved a perfect Lighthouse score of 100 in all categories (Performance, Accessibility, Best Practices, and SEO)
- Published on the Google Play store and Microsoft Store with perfect reviews
- Tested everything with 100% code coverage for quality assurance using Jest

Embedded Systems Project | C/C++, $AVR\ GCC$, Git

Sep 2020 - Dec 2020

- Developed a virtual ATMega324PA robot using C/C++ with AVR GCC tasked to complete various challenges in a virtual environment (SimulIDE)
- Established a collaboration model using the Gitflow branching model

ACHIEVEMENTS

Fullstack Developer Certification | HTML/CSS, Javascript, React, Node.js, Express, Helmet.js, D3.js Jan 2021

• Completed the entire FreeCodeCamp's full stack developer certification which is estimated to be equivalent to 2000+ hours of work

PolyHx Hackathon Finalist | Java, Git

Oct 2019

- Developed a smart fridge that recommends recipes based on the content present in the fridge in a team of 4 using Java
- Placed 2nd in our category (IOT) out of more than 120 teams