Johnatan Gao

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EDUCATION

Polytechnique Montréal <div align="right">Montréal, QC</div>
Bachelor of Engineering in Software Engineering (GPA: 3.7/4.0) <div align="right">Aug 2019 – May 2023</div>

Collège de Maisonneuve <div align="right">Montréal, QC</div>
DEC in Computer Science and Mathematics <div align="right">Aug 2017 – May 2019</div>

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, Express, Numpy, Bootstrap

EXPERIENCE

Software Engineering Intern <div align="right">May 2020 – Sep 2020</div>
Pharonyx Technologies Inc. <div align="right">Montréal, QC</div>
- 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 <div align="right">Nov 2019 – May 2020</div>
Ludex Technologies Inc. <div align="right">Montréal, QC</div>
- 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* <div align="right">Dec 2020 – Present</div>
- 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* <div align="right">Dec 2020 – Jan 2021</div>
- 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* <div align="right">Sep 2020 – Dec 2020</div>
- 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* <div align="right">Jan 2021</div>
- Completed the entire FreeCodeCamp's fullstack developer certification which is estimated to be equivalent to 2000+ hours of work

PolyHx Hackathon Finalist | *Java, Git* <div align="right">Oct 2019</div>
- 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