

Godfrey Cortez

3A Computer Engineering | University of Waterloo

godfrey.cortez@uwaterloo.ca
[linkedin.com/in/godfreycortez/](https://www.linkedin.com/in/godfreycortez/)
github.com/godfreycortez
godfreycortez.com

Skills & Qualifications

Programming - Javascript/Typescript, Java, SQL, C, C++, C#, HTML/CSS

Frameworks - Angular, Spring Boot, React/Redux, JQuery, Express (Node), Mocha, Bootstrap

Tools - PostgreSQL, Keycloak, Git, Visual Studio Code, Linux

Experience

R&D Developer, International Financial Data Services, Toronto

Jan. 2020 - April 2020

- Built a full stack web application (proof of concept) using Angular, Java Spring Boot, and PostgreSQL to improve the environment provisioning process for developers
- Experimented with technologies such as a Kubernetes and NGX-Graph to prototype architectural solutions, significantly reducing the time required to deploy new testing environments
- Allowed developers to drag and drop applications they would like to test within an environment and a dependency graph for that application would be generated
- Secured both the frontend and backend using keycloak as well as integrated UI libraries Kendo UI for Angular components and CoreUI for layout

Software Engineer Co-op, Scotiabank, Toronto

May 2019 - Aug. 2019

- Reconstructed a web application using React and NodeJS, helping to manage the cashflow regarding internal and external deals
- Used various libraries and node modules such as Charts.js and Reactstrap to create a dashboard interface for cash reporting and Oracledb to connect to an oracle database
- Redesigned components of the original Java application into more testable, easy to understand, and overall more maintainable components

Software Developer - Innovation Squad, Scotiabank, Toronto

Sept. 2018 - Dec. 2018

- Developed a chatbot using NLP.JS, a natural language processing framework, which aggregated trading data allowing equity traders to easily query information significantly improving the speed of their workflow
- Designed the app to be modular and portable using HTML, CSS, and JS for the frontend, and NodeJS for the backend which was deployed using Docker so that it was quickly deployable and be easily connected to new services
- Developed a separate REST API to facilitate communication between an Oracle database and the app
- Made the existing web application the chatbot was deployed on more secure with the use of JSON Web Tokens and asymmetric cryptography
- Worked in an agile environment following best practices for software development such as test-driven development, pair programming, daily stand-ups, and regular code reviews

Projects

- Created a personal website with the use of Bootstrap which acts as a companion to my work experience and projects; hosted on Azure and backed by Cloudflare (godfreycortez.com)
- Built an alarm clock with a small team that would query for weather data from the internet
- Developed a cross-platform app using C# and the Xamarin framework for a local baseball coach so that they can plan out the positions of their players during a game while ensuring that they follow the rules
- Produced a multiplayer game in Java based on Snake where up to 4 players can play to see who can make the longest line without crashing