

Zachary Nguyen

Full-Stack Developer

📞 613-400-2081 @ zacharynguyen@cmail.carleton.ca 🔗 <http://zachary-nguyen.com> 📍 Ottawa, ON Canada

EDUCATION

B.Eng Software Engineering (CO-OP)

[Carleton University](#)

📅 09/2016 - 04/2021

SKILLS

Languages (Programming / Markup)

TypeScript JavaScript Java C HTML CSS Python

PHP

Frameworks / Libraries

Reactjs Expressjs Puppeteer Cypress GraphQL

Spring MVC Struts2 jQuery JUnit Redux Electron

Database Management

SQL SQLite Oracle MongoDB S3 Firebase

Tools / Services

Node.js Git Docker Elastic Beanstalk FFmpeg

Webpack Jenkins Maven Heroku EC2

WORK EXPERIENCE

Full-Stack Developer

[Statistics Canada](#)

📅 05/2018 - 12/2019 📍 Ottawa, ON

Worked in an agile work environment developing a web application used for data collection of all surveys conducted by Statistics Canada.

- Implemented new features, resolved bugs and participated in peer code reviews.
- Teamed up with two other developers to add Reactjs and GraphQL into the application by setting up the necessary configurations and infrastructure.
- Lead developer for a new dashboard feature. Responsible of managing the development process for other developers and communication with clients.
- On the downtime, developed a Devtool aimed to help developers and UAT testers increase work efficiency using tools such as React, GraphQL and Apollo.
- Successfully got a proof of concept approved to integrate automated testing as part of the development process using Cypress framework.

Full-Stack Developer

[INITIATE.AI](#)

📅 10/2019 - 09/2020 📍 Los Angeles, CA

INITIATE.AI uses a unique algorithm to repurpose written content to new forms of media: videos, infographics and e-Books

- Implemented a REST API with Node.js and Express to allow communication between front-end and back-end.
- Researched and tested various EC2 instances for load testing to determine best option for production.
- Developed an API wrapper to facilitate interaction with over 5 different popular stock media libraries.
- Designed a process allowing users to create and render videos from the browser.

PORTFOLIO

Open Source Contributions

📅 Ongoing

- Added a new module to pencil-js a modular 2D drawing library.
- Partake in code reviews and bug fixes for Reactjs project.

ICUCode

📅 09/2020 - 04/2021

An assignment submission platform that allows code compilation in browser.

- Team lead in charge of planning development tasks and coordinating between team and supervisor.
- Oversaw deployment of application and releases of each milestone.
- Implemented source code file upload that compiles code using AWS Lambda.

🔗 <https://icucode.herokuapp.com/>

Bolt

📅 2020 - Ongoing

Co-founder of an open-source project which enables users to render Javascript and CSS animations to video.

- Created an electron app that allows users to create videos without any prior video animation experience.
- Configured CI/CD to allow any contributor to add changes to the source code.
- Integrated cross platform packaging and automated releases with Docker and Travis.

🔗 <https://bolt-z.herokuapp.com/>

MERN Stack Boilerplate

📅 01/2020 - 04/2020

A simple MERN Stack boilerplate to help speed up new web app creation.

- Setup a basic infrastructure with an API, connection to MongoDB, and frontend React structure.
- Designed a standard authentication controller with password hashing and salting.
- Added basic deployment with Heroku and GitHub workflows for rapid deployment.

🔗 <https://github.com/zachary-nguyen/mern-boilerplate>

Zac Hub

📅 05/2019 - Ongoing

A portfolio website showcasing all previous and ongoing projects hosted on GitHub.

- Developed with Reactjs as a single-page-application using React-router for navigation.
- Utilized the GitHub API to pull all relevant information needed.
- Responsive front-end was created using MaterialUI framework.

🔗 <http://zachary-nguyen.com>