DanielBrenot
FullStackDeveloper

About Me

A Full Stack Developer with a passion for designing innovative, reliable technologies that run at real time speed, I am a big picture thinker that looks at data structures and considers interdependencies from a holistic perspective.

With an eye on continuous learning and growth, I am always eager to explore new ways of thinking, building and collaborating.

My broad skillset paired with experience in cross functional team environments allows me to be flexible and achieve outcomes that satisfy all stakeholders.
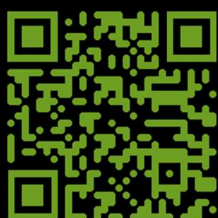
Contact Info

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Work Experience

AP Capital · SeniorSoftwareDeveloper
May 2022 - August 2022

- Created a new trading client for pattern day traders using Rust and Tauri
- Created CI pipelines in Gitlab for automatically building and bundling application updates

CANARIE · FullStackDeveloper
September 2019 - May 2022

- Led the development team in modernizing the existing technology stack by implementing CD/CI and Docker/Kubernetes
- Wrote xml schemas new projects with international collaboration
- Created interactive map visualizations of global network infrastructure and live traffic data
- Created CD/CI Pipelines on Gitlab and Jenkins to automatically lint and test code
- Developed Event-Based parsers in python for ingesting network infrastructure definitions in xml
- Created webservers in python using Django
- Developed microservices for generating pdf reports for stakeholders on a reoccurring basis

TheLandBetween · FullStackDeveloper
December 2018 - September 2019

- Developed a full stack android and iOS application to crowdsource turtle sighting data for researchers across Ontario
- Used typescript and cordova to create a cross-platform app for reporting wildlife sightings in Ontario
- Developed serverside REST API's with express.js for user report submission
- Employed test driven development using karma and jasmine to deliver key features on time

GerogianBayTurtleHospital · FullStackDeveloper
May 2018 - August 2018

- Developed data collection software for field researchers, using custom algorithms in javascript to search data by geolocation
- Developed resource tracking and allocation software for managing time and tasks
- Created a researcher dispatch system to alert on-duty researchers to nearby emergencies regarding endangered animals

ScalesNaturePark · FullStackDeveloper
May 2017 - August 2017

- Developed custom software to book and track events at the nature park
- Rebuilt a database system for tracking endangered species in Ontario wetlands using node.js and mongodb
- Created highly customized search engine for searching data within a schemaless database
- Exported data for use in ESRI software such as ARCGIS

Education

Algonquin College

September 2016 - December 2019

Computer Engineering Technology - Computer Science

Skills

Languages

- Rust
- Java
- PHP
- C
- C++
- C#
- Lua
- Python
- Javascript / Typescript

OS/Deployment

- Windows
- Linux
- Docker

Webserver

- Django
- Express.js
- BodyParser
- Node.js

Webpage

- HTML5
- CSS
- JQuery
- Bootstrap
- Angular
- React
- Cordova

Database

- Postgresql
- MySQL
- MariaDB
- MongoDB
- Redis

Professional Projects

GREN Map

An interactive semi-realtime map of global network infrastructure. Allowed for multiple organizations to contribute a network layout and for them to be combined into a single layout that could then be displayed.

Route Registry

An internal tool for Canadian institutions to contribute dns registries used for global connectivity services.

Network Traffic map

A live map of how much data was being sent within our Canada-wide network using data collected from physical routers across the country with a 5 minute interval

Eduroam Reports

An automated report generator that can be used to track how many students are visiting different institutions and using their wifi services.

Reports could be accessed by institutions

Turtle Guardians

A citizen science app for android and ios that allowed for people to report sightings of turtles to conservation authorities. Would allow for tracking gps location

START Database

A collection of information about endangered species in Ontario and last know locations of re-occurring observations

Pet Projects

rust-algotrader

A rust project for trading securities on multiple cryptocurrency exchanges by performing analysis on orderbook data and making informed high-speed low-latency transactions.

node-pty

A library allowing javascript applications running on node.js to create pseudo-terminals using a native binding

node-binance-fast

A connector library for binance written in typescript. Allows for placing trades and receiving order updates in real time.

cache-size

A library for getting processor cache size information at runtime allowing for data structures to be optimized for specific hardware

coding-game

A game that allows players to use any supported programming language to control characters in a fast-paced realtime multiplayer game

Skills

Rust	Docker	
Typescript	Kubernetes	
JavaScript	CD/CI	
Python	Django	
C	MongoDB	
PHP		