


# Damon Turcotte

## Web Developer

Proficient in front and back end development of web applications and software, database design and management, deployment to cloud-based infrastructure, and implementing distributed system architectures for enhanced scalability. Strong problem-solving ability, detail-oriented, and committed to continuous learning and growth as a developer.

 <https://turcotte.tech>

 1 (825) 437-4025

 [damon.j.turcotte@gmail.com](mailto:damon.j.turcotte@gmail.com)






 Lethbridge, Alberta

## SKILLS






### Front End

-  React
-  JavaScript
-  jQuery
-  HTML
-  CSS
-  SCSS

### Back End

-  Python
-  Django
-  PostgreSQL
-  OAuth 2.0
-  OpenID

### Operations

-  NGINX
-  Gunicorn
-  Linux
-  Bash
-  GitHub

## CERTIFICATES

Django and Python  
Masterclass  
Udemy  
Oct 2022 - Jan 2023

Web Development  
Bootcamp  
Udemy  
Jul 2022 - Oct 2022

Python for  
Everybody  
University of  
Michigan, Coursera  
Apr 2022 - Jul 2022

## PROJECTS

**Name:** Chronicle

**Function:** Portfolio, Blog & Content Management App

**URI:** <https://turcotte.tech>

- Developed responsive web application for my personal site, fine-tuned for both desktop and mobile display.
- Created adaptive UI that adjusts it's features based on viewport dimensions, authentication status and permissions.
- Utilized React's component-based architecture to build several reusable UI components with unique functionalities.
- Implemented client-side routing with resource preloading and state-based storage to optimize site navigation.
- Built custom content management tools to create, update and delete content through the application interface.

REACT JAVASCRIPT SCSS HTML OAUTH 2.0 GITHUB API

**Name:** Chronicle API

**Function:** Protected Resource Server & Content Delivery App

**URI:** <https://api.turcotte.tech>

- Developed content delivery application with REST API architecture to serve content for my personal website.
- Added complex data and file manipulation behaviors to content-related Django models and serializers.
- Created a custom API testing interface to construct HTTP requests and visualize data using recursive JavaScript.
- Integrated Twilio's SendGrid API to generate and send e-mail to my gmail account when users submit contact form.
- Implemented custom authentication flow to handle OpenID Connect & token introspection protocols.

PYTHON DJANGO DJANGO REST FRAMEWORK POSTGRESQL JAVASCRIPT OAUTH 2.0 OPENID

**Name:** Echo Social Network

**Function:** Social Media Platform & Single Sign-on Provider

**URI:** <https://echonetwork.app>

- Created and deployed social media platform with core functionalities and content algorithms of similar applications.
- Developed responsive user interface with hybrid rendering approach using Django Template Language and custom context processors to generate a server-side template and jQuery to asynchronously retrieve and render content.
- Built front end image cropping tools with back end logic for automated resizing, reformatting and removal.
- Integrated GNews API to provide daily news updates to Echo's database so users can access daily news content.
- Added OpenID Connect identity provider functionality with HS256 encryption and custom user data claims.

PYTHON DJANGO JQUERY JAVASCRIPT HTML-DTL CSS DJ. REST FRAMEWORK POSTGRESQL OAUTH 2.0 OPENID

**Name:** Echo Node

**Function:** Dedicated Web Server & System Infrastructure

- Ongoing management of Ubuntu 22.04 web server currently hosting several applications on Linode's cloud network.
- Currently utilizing PostgreSQL for data storage and PGAdmin4 with SSH-tunnelling for remote database management.
- Established DNS records and SSL certificates for secure access to applications via registered domain names.
- Configured NGINX and Gunicorn to serve multiple web applications securely from isolated virtual environments.
- Implemented CI/CD pipelines with YAML, Bash and GitHub Actions' deployment, testing and environment tools.

UBUNTU NGINX GUNICORN BASH YAML GITHUB ACTIONS POSTGRESQL OPENSSEH UFW DNS