Damon Turcotte
WEB DEVELOPER

CONTACT

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Altagrave-Git

TECHNOLOGIES

- HTML
- CSS
- SCSS
- JavaScript
- jQuery
- React
- Python
- Django
- PostgreSQL
- OAuth 2.0
- OpenID Connect
- NGINX
- Gunicorn
- Linux
- Bash
- GitHub Actions

SUMMARY

Full stack web developer proficient in building both front and back end web applications, deploying and maintaining them on cloud web servers and integrating them into network environments. Experience implementing distributed system architectures with resource sharing and single sign-on for enhanced scalability and user management. Strong drive and detail-oriented with excellent creative problem-solving skills, and committed to continuous improvement and growth as a developer.

MY WORK

Chronicle (https://turcotte.tech)
Portfolio, Blog & Content Management App
- ◇ 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

Chronicle API (https://api.turcotte.tech)
Protected Resource Server & Content Delivery App
- ◇ 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 PKCE-enabled OIDC & token introspection protocols.

PYTHON   DJANGO   DJ. REST FRAMEWORK   POSTGRESQL   JAVASCRIPT   OAUTH 2.0   OPENID

Echo Social Network (https://echonetwork.app)
Social Media Platform & Single Sign-on Provider
- ◇ 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.
- ◇ Intergrated 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

Echo Node
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   OPENSSH   UFW   DNS

CERTIFICATIONS

Django 4 and Python Programming   *Oct 2022 - Jan 2023*
Udemy, Jose Portilla

Web Development Bootcamp   *Jul 2022 - Oct 2022*
Udemy, Colt Steele

Programming for Everybody (Python Specialization)   *Apr 2022 - Jul 2022*
Coursera, University of Michigan, Dr. Charles Severance