

# Daniel Gawne

danielgawne@gmail.com

<https://www.github.com/dgwn>

<https://linkedin.com/in/dgwne>

## Experience

### Applications Programmer II | University of Central Florida

Mar 2023 – Present

- Deployed and maintained a Canvas server in AWS for internal development, employee onboarding, and tool debugging.
- Created **open source** documentation to supplement existing Canvas documentation, allowing other institutions to quickly deploy their own Canvas instances
- Developed and maintained Accessible Video Embedder, Captionhub, and Autocaptioner: an ecosystem of internal video captioning tools enabling **14,000+** users a month to view and embed captioned videos, especially useful for deaf/hard-of-hearing students (Flask, Django, Jinja, Docker, AWS, DRF)
- Developed and maintained Search & Replace, a faculty tool for bulk finding and replacing of course content (Django, React, Docker, AWS)
- Developed and maintained Course Designations, a digital credentialing tool for demarcating courses which reach high standards of quality, affordability, and accessibility. Accessed by all courses at UCF, with traffic totaling **4 million+** hits monthly (Flask, React, Docker, AWS)
- Standardized processes for infrastructure and deployment of Learning Tools in AWS, using EC2, ASG, ECR, S3, RDS, IAM, KMS, and CloudWatch, used across over **10** independent applications
- Investigated and initiated a migration toward using **Infrastructure as Code** (IaC) by way of OpenTofu/Terraform to streamline deployments and save developer hours
- Rewrote a legacy PHP application in Python Flask framework for converting Microsoft Word, Powerpoint, HTML, Markdown, LaTeX, and PDF documents into accessible Canvas course content markdown conforming to **Section 508** and **ADA** standards

### Senior Internet Analyst | RaterLabs, Inc.

Jun 2017 – Mar 2024

- Evaluated and improved search engine results for some of the world's largest internet search engine companies

### Digital Media and Marketing Intern | Fleet Farming

Jan – May 2018

- Designed promotional materials for both print and web, developed and tracked ad campaigns, created standards and action plans for future cohorts of media/marketing interns

## Projects

### Rich Content Editor Autocomplete | Javascript, Python, FastAPI, CSS

Feb 2025

- 1<sup>st</sup> Place Winner - Spring 2025 UCF Division of Digital Learning Hack Day
- Proof of concept used Javascript to render additional UI elements and scrape TinyMCE content for processing by API
- Back end processed with Claude LLM to autocomplete suggested course content, including related YouTube video lectures, translation, and content simplification

### Learning Tool Metrics Slackbot | Python, AWS Lambda, SNS, CloudWatch, Slack API

Oct 2024

- 3<sup>rd</sup> Place Winner - Fall 2024 UCF Division of Digital Learning Hack Day
- Internal utility for quickly compiling analytics on many of our learning tools by querying and filtering CloudWatch logs

### Learning Tool Cookiecutter | Flask, Django, Docker, OAuth 2.0,

Apr 2024

- 3<sup>rd</sup> Place Winner - Spring 2024 UCF Division of Digital Learning Hack Day
- Command Line Interface templating engine which allows users to build and prototype Flask and Django applications conforming to the Learning Tool Interoperability (LTI) specification
- Implemented authentication and permissions scoping based on role (Instructor, Student, etc.) and created boilerplate routes and documentation for use in a variety of tools, including course content creation, analytics, chatbots, assignment, and grade services

### Cyclops | Flask, Tesseract OCR, Docker, Canvas API

July 2023

- 3<sup>rd</sup> Place Winner - Summer 2023 UCF Division of Digital Learning Hack Day
- Flask application conforming to the Learning Tool Interoperability (LTI) specification allows instructors to upload and scan handwritten notes, convert to HTML using Optical Character Recognition via the Tesseract library, and embed to Canvas as course content

## Education

### University of Helsinki | Non-Degree Seeking

2022- 2024

**Coursework:** Full Stack Open (Web Development), DevOps with Docker, Elements of AI, Building AI

### University of Central Florida | B.A. in Philosophy, Minor in Sociology

2012- 2017

## Skills

**Languages:** Python, Javascript, HTML/CSS, SQL (MySQL, SQLite, PostgreSQL)

**Technologies:** AWS (EC2, IAM, S3, RDS, Lambda, CloudWatch), Linux, Django, Flask, React, Git/GitHub, Docker, OpenTofu/Terraform, Celery