

Chris Cummings

Full Stack & GIS Developer

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Additional links and info at chriscummings.net

SUMMARY

Who: Self-motivated and detail-oriented Full Stack Developer with over 16 years of experience in web and software development. Specializing in Python, JavaScript, and modern frameworks, I excel in driving projects from concept to deployment. Known for my ability to deliver practical, reliable solutions, I bring a keen eye for detail and a commitment to high-quality code in every project.

Languages: **Python** (12 years), **JavaScript** (16 years), **CSS & HTML** (16 years), **Ruby** (5 years)

Frameworks: **Flask**, **Django**, **Ruby-on-Rails**, **Sinatra**, **Bootstrap**, **Vue**, **React**, **jQuery**, **Dojo**, **Electron**

Tools/Misc: **Docker**, **Git**, **Node**, **LLMs**, **GIS** (ESRI, QGIS, Leaflet, OpenLayers), **Redis**, **PostgreSQL**, **MySQL**

EXPERIENCE

Developer/Owner, Dingo Ranch Labs, LLC (*Freelance & Consulting*) Aug 2021 - Present

- **Developed a research analyst tool for InkStick Media** enabling advanced search capabilities across multiple search engines and the Securities and Exchange Commission (SEC) database, streamlining the retrieval of relevant data based on selected criteria and keywords.
- **Executed data recovery and web scraping** for 65 Vice.com journalists, compiling and packaging each author's body of work into a comprehensive, searchable catalog.
- **Designed and open-sourced a Dockerized chatbot framework** that integrates chat clients like Discord with Large Language Models, providing a scalable solution for AI-driven conversations.
- **Led and completed diverse client projects** involving ETL processes, design consulting, API integration, CMS configuration, and the development of web-based dashboards, control panels, and CRUD applications, utilizing Python, Flask, and JavaScript to deliver robust, user-centric solutions.

Developer, Bell Carrington Price & Gregg (*Product Development for Law Firm*) Jan 2021 - Aug 2021

- **Spearheaded the development of a Django-based application** for attorneys to efficiently assess property parcels impacted by Department of Transportation (DoT) road construction, streamlining legal analysis and decision-making.
- **Engineered Python scripts and workflows** to convert raw DoT engineering drawings into actionable geographic and tabular data, enabling more precise and data-driven assessments of affected properties.

Team Lead Software Engineer, Dominion Energy, GIS Dept. (*Public Utility, Energy*) Jun 2016 - Aug 2020

- **Managed the full development lifecycle** for multiple web-based applications using Python/Flask and JavaScript, delivering tailored internal tools that enhanced organizational efficiency.
- **Collaborated with cross-functional teams** to seamlessly integrate software solutions across the company, aligning development efforts with business objectives and user needs.
- **Developed interactive map-based applications** utilizing Dojo and ESRI JavaScript frameworks, providing dynamic geospatial solutions to support critical business functions.
- **Created a Python/Flask ETL application** for migrating GIS data across various models (Utility Network migration), ensuring high accuracy and integrity for South Carolina's GIS Gas dataset.
- **Designed and standardized application templates and toolchains**, significantly improving software consistency and accelerating development processes within the department.

Lead Developer, US Patriot Tactical (*eCommerce & Warehouse Management*) Mar 2011 - Jun 2016

- **Designed and implemented a mission-critical ERP system** using Rails 3, efficiently managing over \$3 million in monthly web orders and inventory for a catalog of 92,000 products, driving significant operational improvements.
- **Developed robust backend JSON/RESTful web services** with Sinatra and integrated client-side JavaScript, enabling seamless product data access via AJAX and enhancing the responsiveness of user interfaces.

Developer, SC Army National Guard (*Environmental & Facilities Management*) Oct 2008 - Jun 2010

- **Developed HTML5 frontend dashboards and map-based applications** for analyzing utilities infrastructure data, leading to cost reductions in Facilities Management by optimizing resource allocation and maintenance processes.
- **Created Python workflows to aggregate and validate diverse datasets** from sources like the USGS, US Census, and NOAA, converting them into both open-source and proprietary formats, ensuring data accuracy and compatibility across platforms.
- **Developed a Google Earth and Flex mashup application** to visualize and present environmental data in a compelling format, enhancing decision-making for National Guard training initiatives.

Sonar Technician, US Navy Dec 2000 - Dec 2004

- **Coordinated training programs for a division of 16 personnel**, ensuring the development of skills and knowledge critical to the team's operational readiness.
- **Served as the subject matter expert on undersea systems**, providing expert guidance and support to maintain and optimize the performance of advanced underwater technologies.

EDUCATION

Bachelor of Science in Geography, Geographic Information Systems 2010
University of South Carolina, Columbia, SC

Associate of Science in General Studies, Biology 2008
Tidewater Community College, Virginia Beach, VA