

Sean Collins

(562) 370-0806 | sean.collins.developer@gmail.com | <https://github.com/Drink-some-water>

Background: Began my education in graphic design with a passion for arts and creativity. Discovered software programming in an art class and found I could express myself better through code. During my computer science education, I excelled at cutting edge data solutions like stream querying. A unique opportunity allowed me to conduct hundreds of hours of data integration research under the tutelage of an experienced data scientist at Boeing. I hope to combine my passion for the arts and computing with a career in computer graphics or physics simulation, but I will bring those passions with me to any industry I find myself in.

Technical Skills:

Coding: C++, C#, Python, HTML, BASH, PostgreSQL, Java **Frameworks:** Spring, React, .NET

Professional Experience:

Our National Conversation - Software Developer February 2024 - present

- Lead a small team of eight web developers to produce a news aggregator. Set milestones, planned architecture, and performed unit tests and code reviews using agile methodology.
- Designed a REST API and built a React/Django serverless application hosted in AWS DynamoDB/S3
- Wrote custom natural language processing libraries (NLP) to handle fast LDA and TF-IDF to sort news articles from the feed into searchable topics and semantic clusters, producing verifiable, unbiased news

Data Annotation - Software Developer January 2024 - present

- Made comments and corrections to training data for large language models (LLM)
- Provided thoughtful explanations and code examples to train GPT and Bard
- Wrote code across several languages and environments including C#, React, Python, and several SQL versions

California State University - Long Beach - Teaching and Research Assistant May - December 2023

- Graded projects and researched class materials to make slides for two classes, extensively learned Google Compute Cloud (GCP) and language processing techniques
- Lead tutoring sessions with dozens of students to practice skills involving data integration
- Research provided the basis for the professor's personal software project [Dataniz.com](https://dataniz.com), an IoT simulation and data transformation tool

Education:

California State University - Long Beach Graduated December 2023

Bachelor of Science in Computer Science GPA 3.5

Projects:

Fileless Ransomware for red team, blue team exercise August - December 2022

- For a school project, I researched and developed ransomware that leveraged an Internet Explorer vulnerability that allows javascript to run powershell script (script also included C#)
- Script ran without any visual indication, encrypting all user-writable files with AES encryption and a key generated by my website
- Sent information about the victim's user profiles to myself via SMTP