Zachary Ryan Cervenka

zachary.cervenka@gmail.com

LinkedIn | GitHub

PROFESSIONAL SUMMARY

Detail-oriented Computer Science graduate with strong web development and data engineering skills. Proven ability to build full-stack web apps and data processing tools. Strong background in ETL pipelines, cloud deployment, and data visualization. Eager to contribute to innovative tech teams focused on scalable solutions. Key qualifications include:

- Programming Languages: Python, Java, C#, Golang, C, JavaScript, Typescript
- Web Technologies: Django, FastAPI, Flask, TailwindCSS, Node, Svelte, React, Next
- ETL Pipelines, Data Analysis / Engineering
- Database Management: PostgreSQL, MongoDB, Neo4j, SQLite
- Version Control / DevOps: Git, GitHub, GitLab
- Cloud / Hosting: AWS, GCP, Vercel

EXPERIENCE

East Carolina University 2019-2024

CSCI 2530 Text Art Editor Group Project (2021)
- Developed a Text Art Editor using C and Visual Studio 2019
- Enabled ASCII art file editing, creation, and animation with a 2D array canvas

CSCI 4140 Sentence Segmenter Individual Project (2023)
- Built a Machine Learning sentence segmenter in Python
- Assigned specific rules to tokenize content and structure data into sentences

YouTube Watch History Metrics Web App (2024)
- Built a full-stack data analysis web-app with Python, FastAPI, htmx, and TailwindCSS, Redis
- Provided users with the ability to upload their watch history for data extraction and visualization

CSCI 4230 Interactive Flowchart Group Project (2024)
- Designed a dynamic tool for ECU that enhances academic planning
- Implemented secure authenticated routing with Svelte
- Extracted course catalog data via Go web scraping and managed data using PostgreSQL on Google Cloud Platform

Bunkers Bar & Grill Web App (2025)
- Developed a full-stack, responsive website for a local bar & grill using Next.js, hosted on Vercel, with Sanity CMS as a headless backend.
- Collaborated with stakeholders to translate business needs into functional features
- Implemented a webhook-based cache invalidation mechanism to refresh content on Vercel whenever data changed in Sanity

EDUCATION
- Bachelor of Science (Computer Science), East Carolina University, Greenville, North Carolina

CERTIFICATIONS
- IBM Full Stack Software Developer Professional Certificate, Coursera