DevOps and Cloud Engineer & Software Developer, combining 18 years of quantitative consultancy with a distinguished military background. As Lead Auxiliary Plant Supervisor onboard USS Safeguard, secured 1 of 2 ship historic lifetime Battle ‘E’ Engineering Excellence Awards, catapulting ship readiness to best-in-fleet in 6 months. Experienced in **DevOps, Agile, and Object-Oriented Programming**. I have **architected, developed, and deployed** a wide array of **full-stack web applications** on **Amazon Web Services** and **Oracle Cloud Services**, utilizing **Kubernetes**, Docker, while automating workflows with terraform and CI/CD. Recently completed 2 rigorous technical bootcamps.

**TECHNOLOGIES & CERTIFICATIONS**

**Languages & Tech:**

- **JavaScript (React.js)**

- **Python (Django)**

- **SQL (PostgreSQL/MySQL)**

- Bash/Shell Scripting

- Git/GitHub Actions/CI-CD

- AWS/Oracle Cloud Services

- **Docker**/**Kubernetes**/IaC

- LAMP/MERN/ELK Stacks

**- Terraform**/**Ansible**/SonarQ

**Certifications:**

- **AWS Cloud Practitioner**

- **SAFe 5 Practitioner**

- Scientific Computing with Python

- JavaScript Algos & Data Structures

**RECENT PROJECTS**

**ABHES Q&A Bot – Leveraging ChatGPT-4, and 3 distinct ChatGPT 3.5-turbo instances, efficiently designed and generated a comprehensive Object/Dictionary lookup table from the ABHES Standards of Accreditation.**

* + - Engineered a cost-effective solution using **Django and Python** automation scripts, coupled with OpenAI GPT instances, to process a 225-page PDF URL endpoint in under 15 minutes at a cost of less than $3.50, creating over 800 unique questions and answers derived from the accreditation agency (ABHES) standards.
    - Implemented **CI CD workflows** with **GitHub Actions**, **Docker containerization**, and provisioning via **Terraform**
    - Automated the Q&A generation, bypassing the need for legal expert in health education and accreditation, resulting in a cost savings of approximately $34,000 represented by 112 hours in expert legal consultancy fees.

**Logistics Automation Script - As a consultant, employed automated Python script using Selenium to design an automation script for a logistics specialist, streamlining the shipment data extraction and manipulation process.**

* + - Created a curated **Python scripting solution** that logs into a logistics portal, performs data extraction, filtering, and manipulation **autonomously**, and ensures timely execution by integrating a scheduling module.
    - Engineered a data storage solution using **AWS S-3**, **serverless Lambda function** all behind **Cognito Authorization**
    - Successfully turned a labor-intensive process into an automated routine, resulting in an annual timesaving of 65 hours per worker, thereby increasing aggregate productivity while reducing human error.

**RELEVANT EXPERIENCE**

**DevOps Engineer and Software Developer** 2022 - 2024 | **Statistical Analyst & Consultant** 2005 – 2023

**DevOps Engineer and Software Developer** 2022-2024

* + - Utilized ChatGPT-4 and 3 ChatGPT 3.5-turbo instances to generate an Object/Dictionary lookup table from a 225-page ABHES report in under 15 minutes for less than $3.50, creating 800+ unique Q&As, saving $34,000 in legal consultancy fees, and powering a cost-free **Python** scripted chatbot for easy access to regulatory information.
    - Residential Sales Analysis: **Python** scripted automated retrieval of 20 years of Erie County property sales, seeding an **SQL database** with 20,000+ records for trend analysis, geolocation coordinate generation, and API creation.

**Statistical Analyst & Consultant** 2005-2023

* + - Founder and Lead Analyst specializing in applied statistics, quantitative econometrics, and data-driven decision-making, with a focus on providing accurate and actionable insights utilizing R scripted solutions.
    - Leveraged R programming/libraries to analyze student/teacher data for a for-profit institution, identifying grade inflation through a curated algorithm, subsequently applied in multiple efficiency layoff rounds.

**EDUCATION**

**Code Platoon – DevOps and Cloud Engineering Bootcamp,** Chicago, IL *2024*

**Code Platoon - Full Stack Web Development Bootcamp,** Chicago, IL 2023

**The Pennsylvania State University** – **Applied Statistics Graduate Certificate**, State College, PA 2015

**University of California, San Diego** – **B.A. in Economics**, San Diego, CA 2011