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# Derek Opel

## Cybersecurity Analyst

San Diego, CA

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## SKILLS

### Technical Tools

- Security: NIST CSF & RMF, Suricata IDS, VirusTotal, Security Compliance
- Systems: Linux, Windows, Cloud platforms
- Development: Python, JavaScript, Security Automation
- Data: SQL, Security Monitoring, Log Analysis

### Professional Skills

- Problem-solving, attention to detail, oral & written communication
- Growth mindset & curiosity, teamwork, analytical thinking

### Portfolio

Comprehensive cybersecurity projects at [github.com/w30-dopel/Cybersecurity-Portfolio](https://github.com/w30-dopel/Cybersecurity-Portfolio)

## EXPERIENCE

### Google Cybersecurity Professional Certificate, Online

DECEMBER 2024 - MARCH 2025

- Conducted security audits using NIST CSF to identify threats, vulnerabilities, and risks to critical assets
- Developed Python scripts to automate IP address filtering for healthcare data access controls
- Analyzed network security incidents and created detailed incident response documentation
- Implemented Linux file permissions to secure sensitive data following principle of least privilege
- Performed SQL security analysis to identify unauthorized access attempts in enterprise databases
- Created vulnerability assessments for e-commerce systems with specific remediation strategies

### Naval Information Warfare Center (NIWC) Pacific, San Diego, CA - Computer Scientist

SEPTEMBER 2020 - PRESENT

#### Project 4

- Used Python, Javascript, HTML, and CSS to create a web application prototype displaying Very Low Frequency Radio data at a global scale using CesiumJS

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- Assimilated and automated physics-based calculations of the Ionosphere into the CesiumJS application using a Flask module installed in the Anaconda environment

### Project 3

- Aided Office of Naval Research by creating eight data visualization diagrams using Gestalt principles of visual perception to extract meaningful insights from complex data
- Completed Storytelling with Data by Cole Nussbaumer Knafllic and Completed A-Z Tableau Udemy course to put visual design into action and further prepare for future deliverables

### Project 2

- Collaborated with teammates using data analysis and machine learning, including a post processing prediction pipeline library using Python and Java
- Created a ML training pipeline for big data: ETL, EDA, multi-model training, and post-training performance analysis in Python for 96 neural network models
- Maintained ML code using JIRA to facilitate bug and issue tracking, updates, patches, and documentation
- Developed sensitivity analysis chart infusing eight-dimensional data into a three-dimensional space

### Project 1

- Created a custom-made Python script that took in GRIB files and converted them to a GeoJSON format for subsequent rendering using the OpenLayers library
- Interacted with GeoServers and extracted weather data to run interactive, time-incremented, and dynamic data on a global scale

### San Diego State University, San Diego, CA - *Statistics Tutor*

AUGUST 2019 - DECEMBER 2019

- Taught and aided students seeking help in their statistics coursework
- Distilled statistical concepts into smaller components for students by communicating through a combination of oral, visual, and written mediums

## EDUCATION

### San Diego State University, San Diego - *Bachelor of Science in Computer Science*

JULY 2014 - DECEMBER 2019

Recognized on the Dean's list for achieving the top 10% for overall GPA and achieved cum laude by graduation.

## QUALIFICATIONS

- Previously held security clearance for nearly 5 years (2020-2025)