Christopher Jellen

Security Software Engineering with Wraithwatch

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Work Experience

Wraithwatch

Security Engineering | Machine Learning Engineering

- Wraithwatch is a cybersecurity startup building the next generation of AI/ML-informed cyber defense. As an early member of the team, I've had the opportunity to build the product, own customer relationships, and help drive strategic direction.
- Lead the design and development of security automation workflows.
- Managing the product roadmap through synthesis of partner feedback, engineering resources, and machine learning research.
- Core Technical Skills: Python, Kubernetes, Neo4j, Terraform

Microsoft

Software Engineering | Engineering Operations

- As a member of the developer platform team, I scoped and delivered shared release and observability tooling for the Microsoft Defender ecosystem.
- Decreased time-to-release across dedicated cloud environments by a factor of four through automated configuration and service validation.
- · Led development and evaluation of forecasting models for cloud storage and compute demand to aid in long-term strategic planning.
- Core Technical Skills: C#, Go, Kubernetes, Docker, Python, Azure

The MITRE Corporation (CALDERA)

Product Lead | Engineering Manager

- Product lead for CALDERA's cyber ontological mapping capability, interfaced with a range of DoD sponsors to ensure wide interoperability and wider use of CALDERA as a cyber analytic tool.
- Led a team of four (3 engineers, 1 data scientist) to develop novel offensive cyber planning capabilities and data management solutions.
- Supported The Veteran's Benefits Administration, the United States Marine Corps, and Intelligence Community as an engineer and leader, building a strong understanding of customer needs, clear communication, and strategic planning.
- Core Technical Skills: Python, JavaScript, Docker, AWS, Ansible

Projects_

Explore GitHub

A multi-container app to traverse GitHub as a social graph. Built in Go and Svelte. Try it out at

https://explore-github.com.

National Data Buoy Center API

The Python API for NDBC data services, served through PyPi and conda force.

- A Python API for querying oceanographic and atmospheric data from the National Data Buoy Center.
- The package includes full test coverage, powered by PyTest, as well as extensive usage documentation.

National Association of Corrosion Engineers Design Competition

A semi-autonomous robot for computer-vision enabled corrosion detection and mapping.

- Led a team of five students and engineers to plan, design, integrate, build, and test a semi-autonomous corrosion detection robot.
- Presented update briefings to the Office of Naval Research (ONR), communicating the project road-map, finances, and technical specifications.
- Placed 1st in the competition through the development and application of a CNN-based corrosion detection model.

Education_

United States Naval Academy

BS Honors Applied Mathematics | BS Mechanical Engineering | GPA: 4.00

• Graduated ranked 1st in my class by Academic Order of Merit.

• Trident Scholar: A Machine-Learning Model for Prediction of Optical Turbulence in Near-Maritime Environments

Publications_

Machine learning informed predictor importance measures in maritime optical turbulence.

Leveraged ensemble tree-based ML methods to gain insights into the predictive power of meteorological data on local optical turbulence, as measured by C_n^2 .

Hybrid Optical Turbulence Models.

Developed hybrid machine learning models for predicting local C_n^2 using real-time climactic data, demonstrating an improvement over prior literature models for application in the near-maritime environment, especially with few measurements.

Applied Optics 59, 6379-6389 (2020)

Editors Choice

Applied Optics 62 (18), 4880-4890

Redmond, WA

2022 - 2024 osystem

Seattle, WA

2024 - Present

Seattle, WA

github.com/cdjellen/discover

github.com/cdjellen/ndbc-api

Houston, TX

Annapolis, MD

Jun 2016 - May 2020

Aug 2018 - Apr 2019

2020 - 2022