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**KYLE WEEKS**

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Developer & DevOps Engineer

## SKILLS

**Product development** Python, FastAPI, Flask, SQLAlchemy, Neo4j Graph DB, OpenCTI, PyCTI

**DevOps** Kubernetes, GCP, GitOps, Gitlab CI, Grafana, Kibana, Sentry, Vertex AI integrations

## EMPLOYMENT

**Senior Software Engineer, Flashpoint**; Philadelphia, PA (Remote) Jul 2022 - May 2024

Technical Indicators team member responsible for developing and maintaining the company’s delivery of Indicators of Compromise (e.g. URLs, file hashes, IPs) to public and private sector customers.

* Developed and maintained a graph-backed RESTful API (*FastAPI, Neo4j, OpenCTI)* that delivers IOCs with unprecedented relationship and contextual data, which helped customers detect and stop threats.
* Tech lead OpenCTI integrations that enabled more contextual data for IOCs from both analysts and automated sources.
* Trained an ML model *(Vertex AI)* to extract IOCs from inconsistently-formatted emails and integrated it into our existing pipeline, providing customers with unparalleled threat information.
* Built an internal authentication API *(FastAPI)* from the ground up with the Auth team, enabling seamless integration with existing systems *(Okta, Salesforce)*.

**Software Engineer II, Comcast**; Philadelphia, PA(Remote) Sep 2021 - Jun 2022

SPIL (Sales Partner Integration Layer) team member responsible for operations relating to company’s large-scale customer data migration from third-party data store to internal platform.

* Migrated millions of customer records (18 markets) from third-party to internal store by consuming events (SQS, *ECS, DynamoDB*), which provided other teams with faster, more efficient access to critical data.
* Developed and managed microservices (*AWS ECS, Concourse CI*), often providing critical code fixes on tight deadlines that allowed other teams to consume our APIs (*GraphQL*) and reach their respective goals.
* Mentored developers and reviewed code which minimized technical debt and enabled team growth.

**Full Stack Developer, [CyberFortress](https://www.cyberfortress.com)**; San Antonio, TX (Remote) Mar 2020 - Aug 2021

Responsible for operations relating to company’s e-commerce downtime insurance platform including systems availability, release deployments, and regulatory reporting.

* Developed and managed reporting component of company’s insurance platform (*Flask/Django/Vue.js/*K8s) while working closely with Chief Insurance Officer, which led to MGA agreement with major insurer
* Developed and managed a resilient, scalable *GitOps* CI/CD pipeline (*GCP, K8s*) that enabled seamless deployment across multiple repos, simplified rollbacks, and integrated version control.
* Integrated our CI/CD pipeline with Slack (*Google Cloud Function, Slack API*) that enabled a single point of reference to development across multiple repositories and deployment environments.

**English Instructor, Osaka City Board of Education**; Osaka, Japan Apr 2014 - Feb 2020

Taught public school students effective communication skills in English and cultural literacy.

## [OPEN SOURCE](https://github.com/pulls?q=is:pr+author:kylepw+archived:false+is:closed+is:merged) CONTRIBUTIONS/[PUBLICATIONS](https://kylepw.medium.com)

**[youtube-dl](https://github.com/ytdl-org/youtube-dl)** Added new [extractor, code convention docs](https://github.com/search?q=repo:ytdl-org/youtube-dl+is:pr+author:kylepw+archived:false+is:merged) to embedded video download tool.

**[Web Scraping in Python: Extract Embedded Videos Like a Boss (Medium)](https://betterprogramming.pub/extracting-embedded-videos-8fc391906530)**

**[GitOps and multi-repo versioning (Medium)](https://kylepw.medium.com/gitops-and-multi-repo-versioning-14509b38a160)**

## EDUCATION

**Rutgers University, New Brunswick, NJ**  May 2008

BA, East Asian Studies, 3.9 (Summa Cum Laude)