

# Alden Page — Staff Software Engineer

Manhattan – New York, NY

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## Skills

- Languages **Python, Java**, bash, SQL.
- Technologies Linux, AWS, GCP, Docker, Terraform, git, Django, FastAPI, Flask, Kafka, Elasticsearch, OpenAPI, NGINX, OpenCV, PostgreSQL, Prometheus, Grafana.
- Concepts Software architecture, cloud APIs, distributed systems design, network programming, security, parallelism, concurrency, asynchronous programming, profiling and optimization

## Whitepapers

- Aug 2020 **How to Politely Crawl and Analyze Half a Billion Images**  
<https://alden.page/crawler>

## Experience

- Mar 2024 – Present **DoubleVerify**, *Staff Software Engineer, Social Integrations*, New York, NY (hybrid remote)
- Mar 2022 – Mar 2024 **DoubleVerify**, *Senior Software Engineer II, Social Integrations*, New York, NY (full-time remote)
- Dec 2020 – Mar 2022 **DoubleVerify**, *Senior Software Engineer, Social Integrations*, New York, NY (full-time remote)  
Designing content moderation pipelines for protecting advertisers' reputations on social networks.
- Built content moderation pipeline used to categorize millions of TikTok videos per day.
  - Play a key role in architecting and developing a half-dozen bespoke social API integrations.
  - Nominated to lead security efforts for a department of ~20 engineers. Independently identified and patched a serious injection vulnerability and tuned our development process to make the same mistake impossible to repeat.
  - Rehabilitated an unstable critical legacy system and turned it into a reliable revenue generator.
  - Participate in hiring committees, provide in-depth code reviews, and mentor other engineers.
- Key tools: Python, BigQuery, Kafka, Redis, FastAPI, Django, asyncio, Grafana, Prometheus, Docker, Kubernetes, Google Cloud Platform, Airflow, PostgreSQL*
- Apr 2018 – **Creative Commons**, *Software Engineer*, New York, NY (full-time remote)
- Nov 2020 Building fully open-source systems to catalog and search 1.4 billion Creative Commons works.
- Built a custom large-scale polite image crawler to scrape, thumbnail, and analyze half a billion images.
  - Architected and implemented API server and other back end systems for searching, cataloging, and sharing billions of public works scattered across the internet.
  - Built a fast indexing system which cut the time to build our search index by several orders of magnitude.
  - Managed interns, a team of six external consultants, and the hiring of new developers.
- Key tools: Python, asyncio, Graylog, Docker, AWS, Terraform, Elasticsearch, Kafka, Redis, PostgreSQL, Django REST Framework, Linux, bash, OpenAPI*
- Jul 2017 – **Block Six Analytics**, *Senior Software Engineer*, New York, NY
- Nov 2017 ○ Developed backend APIs for orchestrating jobs in a computer vision system.  
*Key tools: Python, Node.js, NGINX, Terraform, AWS, OpenCV, Flask, OpenAPI, Docker, PostgreSQL*
- Sep 2015 – **Deutsche Bank**, *Software Development Engineer*, New York, NY
- Jul 2017 A development role with the Equity Derivatives and Prime Finance business lines at a bulge-bracket bank.
- Developed the server side of a large distributed trading system used to compute risk and PnL on a large number of securities in real-time. *Key tools: Java, Linux, bash*

## Education

- 2011–2015 **Allegheny College**, *Computer Science, Economics (minor)*, Meadville, PA