

# Josh Fayer

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Updated: October 2024

## EDUCATION

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**Syracuse University, Public Relations, B.S.**

2016 – 2020

*Minors: Computer Science, Political Science*

GPA: 3.7, magna cum laude

## SKILLS

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**Languages:** TypeScript, Python, Golang, Shell

**Full-Stack Development:** Node.js, React.js, Docker, Git

**Data Pipelines:** SQL, BigQuery, MongoDB, Elasticsearch, TensorFlow, PyTorch, Prompt Engineering

**Cloud Infrastructure:** GCP, Kubernetes, Terraform

## EXPERIENCE

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### Data & Software Engineer

04/2024-present

*CleanDNS*

Technologies: Go, Python, PyTorch, LLMs, TypeScript, Kubernetes, Docker, GCP, SQL, BigQuery, MongoDB

- Developed scalable DNS sinkhole product that handles more than 90 million requests per day.
- Overhauled abuse processing pipeline to achieve >85% accuracy in detecting phishing content.
- Built data pipelines and one-off reports in Python, SQL, shell, Elastic, and BigQuery.
- Contributed to refactors improve schematization, consistency, performance, and scalability.

### Junior Software Engineer

10/2023-04/2024

*CleanDNS*

Technologies: React.js, TypeScript, Node.js, MongoDB, Docker, GCP

- Developed dozens of React components for the CleanDNS frontend.
- Developed TypeScript and Python back-end services and integrations with client APIs.
- Led effort to improve CI/CD experience through unit testing and deployment automations.
- Delivered several automation and analytical concepts to improve efficiency and robustness of the CleanDNS data model, such as algorithms for comparing phishing page HTML structure.
- Rearchitected core business ETL pipeline to improve performance and extensibility.
- Promoted to Data Engineer in April 2024.

### Technology Manager & Software Engineer

10/2021-10/2023

*Break Something*

Technologies: React.js, Node.js, TypeScript, Next.js, SQL, Python, Django, Docker, GCP, Chrome extensions

- Coded and maintained web and cloud applications, including a TypeScript chrome extension, several React-based internal tools, and scalable Python and JavaScript serverless functions.
- Managed BI pipeline including building reports in Google Looker Studio, auditing internal data pipeline, and running analyses in SQL.
- Built and deployed full-stack product with Python, Django, and MySQL.
- Project managed, built and maintained 14 client websites and other front-end web content.

## PROJECTS

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### DinoDNS - [github.com/jafayer/dinodns](https://github.com/jafayer/dinodns)

Technologies: TypeScript

- Designed and built an Express-inspired DNS server framework in TypeScript.