# Cary Carter

Full-Stack Developer

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## README (about me)

I have been described by others as a "full-stack engineer". I'm able to create, deploy, and maintain every part of an at-scale software product. I generally prefer to stay within the python ecosystem and place a heavy emphasis on following best software engineering practices in regards to testing, deployment, formatting, etc. I've dedicated my life to this work, as can be seen on my github.

## Skills (current)

HTML/CSS
Python (Django/FastAPI/Flask)
Javascript & Typescript
Shell (POSIX Compliant)
SQL (postgresql / mysql)
Docker & Docker Compose
Linux (Debian variants preferred)
CI/CD (CircleCI/Github Actions)
Google Cloud Platform
Microsoft Azure (past)
AWS (past)
REST/GraphQL APIs
React (Typescript + MaterialUI)
Cybersecurity (offensive and defensive)
AI Tools (CoPilot, GPT-4)
PHP/Perl (past)
Git / Github

# Experience

### Full-Stack Engineer
365 Retail Markets
**June 2022 - current | Detroit, MI**
**Django | React | Typescript | GraphQL | MySQL**
**Google Cloud Platform (App Engine/Cloud Tasks/etc)**

- Pushed for best practices including: design patterns, code formatting/linting rules, automated test coverage both frontend & backend, security, etc
- Responsible for all non-AI webapp/api/device functionality
- Improved performance of existing item ingestion pipeline by several million % and ensured pipeline correctly processed bad data being received.
- Massively Improved/Optimized existing CI/CD pipeline, ORM query performance, graphql loader
- Created most of the documentation for a mostly undocumented codebase (before ChatGPT)
- Built a Google IOT Core replacement service

### Frontend Developer
Invene
**March 2020 - June 2021 | Dallas, TX**
**Typescript | Microsoft Azure**

- Built frontend for Azure functions allowing doctors and patients to easily record their visits using voice recognition to automatically transcribe information during medical appointments

### Web Developer
TAP Publishing
**OCT 2017 - OCT 2018 | Crossville, TN**
**Perl | Javascript | SQL | Apache2 | AWS**

- B2B Marketplaces focused on construction equipment, aircraft and parts, semi-trucks and parts, etc. Perl backend and JQuery frontend.
- Fixed multiple security vulnerabilities.

### Software Developer
Constituent Voice
**June 2015 - April 2016 | Dallas, TX**
**Python (flask) | JavaScript | SQL | Nginx**

- Fixed security vulnerabilities, automated testing, web scraping. Worked on the web application which enabled lobbyists and similar to schedule, plan, and organize more effectively.

# Experience (expanded)

## Python
Proficient in Python as my preferred primary programming language. Extensive experience in developing **Flask**, **Django**, and **FastAPI** web applications. Skilled in data scraping, often parallelized and utilizing multiple proxies for efficient data collection. Proficient in using **Selenium** for web automation tasks. Strong expertise in writing unit/integration tests with **pytest**, with a focus on achieving high test coverage percentages. Multiple published Python packages available on PyPI as well as, many, public Github repos. Preferably formatted using **Black**.

## SQL (Postgres/MySQL/SQLite)
Integral to most of my projects, my focus has been on crafting well-structured data relationships and optimizing query performance. Almost exclusively through using an ORM like **SQLAlchemy** for creating highly optimized, secure queries. Hands-on experience in implementing and utilizing backup and disaster recovery strategies.

## GraphQL
Experience creating, optimizing, and debugging mutations/queries/etc using **Graphene**-**Django** on the backend and **Apollo** on the frontend.

## REST APIs
Over the years I have interacted with many APIs, and most web APIs are REST APIs. Experience consuming, creating, deploying, maintaining said APIs, ideally following the **OpenAPI** specification.

## Shell (Sh/Bash/Zsh)
I've written many miscellaneous shell scripts over the years, which I've tried to ensure are **POSIX** compliant.

## Docker / Docker Compose
Experience creating optimized local development and production containers. Experience using docker compose to orchestrate multiple containers.

## PHP
Developed image hosting website, created various simple web services/APIs, identified/exploited misc security vulnerabilities.

## Perl
Re-designed/ added new features, and patched security vulnerabilities in a legacy codebase

## HTML5/CSS
Utilized in all of the web applications I've worked on. Experience with CSS preprocessors such as **LESS/SASS.**

## Javascript/Typescript
Experience in creating frontends, both with and without major frontend frameworks, as well as some (limited) nodejs experience (for react-scripts and the like usually). **Typescript** is preferred wherever possible. Exploited, reported, as well as secured multiple **XSS** vulnerabilities. Experience using **Jest** to create frontend tests.

## React (typescript)
Frontend framework of choice, typically used with **MaterialUI v5.** Experience creating performant/maintainable/secure/portable react code. Experience building & deploying across multiple platforms (ie using **Appcompat** to create android app **.apks**) and resolutions.

## Linux (Debian/Ubuntu)
Extensive experience. Preferred OS for every internet connected system. Some security hardening experience.

## Cloud Hosting (AWS/GCP/Azure)
I've used almost every major cloud platform at this point, achieved cost optimizations, security improvements, etc

## Cybersecurity
Successfully reported, and received payment for, bug bounties. While most familiar with web adjacent security topics (XSS, RFI, RCE, SQLI, etc). Broader experience in areas such as wireless cracking, cryptography, etc. Both offensive and defensive.

## Blockchain/Cryptocurrency
Hands-on experience both using and mining various cryptocurrencies, with a solid understanding of blockchain technology.

## CI/CD (CircleCI/Github Actions)
Experience creating/configuring/optimizing workflows/jobs to ensure easy, fast, and reversible deployments.