

# PAUL H. CHOI

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pchoi.me

## PROFESSIONAL EXPERIENCE

### Technology Consultant • Freelance

Philadelphia, PA • Jan 2024 – Present

- Collaborated with four small business clients to conduct requirement gathering sessions and develop tailored solutions.
- Managed full project lifecycles from concept to final deliverable, while maintaining open communication with the clients.
- Providing continuous support and monitoring of website performance to ensure smooth operation of websites.

### Software Engineer II • HackerOne (*hackerone.com*)

San Francisco, CA (Remote) • Jun 2022 – Aug 2023

- Developed the Penetration Testing and Assessments platform using **Typescript**, **React**, and **Ruby on Rails**.
- Introduced the platform's first fake-door feature in collaboration with the Product and UX team, establishing a new evaluative framework for go-to-market strategies by capturing early customer interest data.
- Increased program managers' client onboarding efficiency by **13%** by automating their Slack setup and configuration processes.
- Received company-wide recognition for timely action multiple times by addressing **two** critical production support instances.

### Software Engineer II • Sidecar/Quartile (*quartile.works*)

Philadelphia, PA (Remote) • May 2021 – Jun 2022

- Developed the analytics platform using **Typescript**, **React**, **Python**, **GraphQL**, and micro-frontend architectures.
- Implemented and launched a data backfill feature for clients by creating a service that leverages **Argo** workflows, **Kubernetes** clusters, **AWS SNS/SQS** services, and **GraphQL** resolvers.
- Managed the core UI component library by developing reusable components with **React** and **Storybook**.
- Resolved several critical site reliability engineering (SRE) issues using **Sentry** for problem discovery, and integrated service level objective (SLO) monitoring metrics in **Datadog**, enhancing the platform's performance tracking.
- Mentored **three** new engineering hires by owning and refining the existing engineering onboarding process.

### Software Engineer • Qurate Retail Group, Inc. (*qvc.com*)

West Chester, PA • Jun 2019 – May 2021

- Enabled event monitoring for over **18 million** global annual sessions by integrated Google's Firebase Analytics library into the flagship Android application using **Kotlin**, while ensuring adherence to government regulations (CCPA & GDPR).
- Developed **six** A/B test-enabled features using Leanplum's mobile SDK to enable data-driven decisions for the product team.
- Developed an internal search engine that indexed over **14 million** products, delivering search results in less than **400ms** using **Elasticsearch**, **Java Spring Boot**, and **Angular**.

## VOLUNTEER / OPEN-SOURCE EXPERIENCE

### Tech Lead & Director of Digital Technologies • Metro (*metrophilly.org*)

Philadelphia, PA • May 2019 — Present

- Leading the Digital Technologies team to ideate, develop, and launch a web application leveraging technologies such as **Typescript**, **React**, **Next.js**, **Python**, **Sanity CMS**, **PostgreSQL**, and **AWS (S3, CloudFront CDN)**.
- Defined data-led features to grow the site to over **1,800** monthly active users, at a **111%** growth rate year-over-year.
- Reduced the annual operating cost by **60%** by migrating to a self-hosted service with **zero** downtime.
- Managing and mentoring a growing team of **nine** volunteers, comprised of software engineers, data engineers, and designers in varied stages of their professional path, from senior to associate levels.

### Lead Front End Engineer • Clean & Green Philly (*cleanandgreenphilly.org*)

Philadelphia, PA • March 2024 — Present

- Spearheading the front-end development for an open-source civic app written in **React**, **Next.js**, and **Python**, defining architectural and organizational best-practices to guide the project's development trajectory.
- Boosted the Core Web Vitals' "Performance" metric by **28.3%** by compressing and serving optimized images.

## EDUCATION

### Temple University

Bachelor of Science in Computer Science  
Minor in Data Science: Computational Analytics

Philadelphia, PA

Graduated May 2019

## TECHNICAL SKILLS

**Languages:** TypeScript, JavaScript, Python, Ruby, Java, Kotlin, Swift, C, SQL, GraphQL, Bash, PHP, HTML, CSS

**Frameworks:** React, Next.js, Gatsby, Node.js, Express.js, Flask, Django, FastAPI, Rails, Tailwind CSS, Spring Boot

**Tools:** Git, AWS, Docker, Kubernetes, gRPC, Sanity CMS, Datadog, Sentry, Jenkins, VSCode, Android Studio, Figma, Jira, Confluence, Slack

**Interests:** Privacy, Drumming, Snowboarding, Rock Climbing, Running

U.S. Citizen