# PAUL H. CHOI

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## PROFESSIONAL EXPERIENCE

**Lead Engineer & Director of Digital Technologies** • **Metro** (*metrophilly.org*)    **Philadelphia, PA** • May 2019 — Present

*Metro is one of the fastest-growing multi-ethnic churches in the Philadelphia area, with 600+ congregants across three campuses.*

- Working pro-bono as the Director of the Digital Technologies team to build and maintain the primary web application, using **Typescript**, **React**, **Next.js**, **Python, Sanity CMS**, **PostgreSQL**, and **AWS (S3, CloudFront CDN)**.
- Increased the site's monthly active users to **111%** year-over-year by defining and implementing data-led strategies.
- Reduced the organization's annual operating cost by **60%** by migrating to a self-hosted service with **zero** downtime.
- Managing and mentoring a team of **nine** and growing, comprised of software engineers, data engineers, and designers in varied stages of their professional path, from associate to senior levels.

**Software Engineer II** • **HackerOne** (*hackerone.com*)    **San Francisco, CA** (Remote) • Jun 2022 – Aug 2023

*HackerOne is a leading cybersecurity platform specializing in vulnerability disclosure, bug bounty, and penetration testing programs.*

- Developed the Penetration Testing and Assessments platform using **Typescript**, **React,** and **Ruby on Rails**.
- Implemented 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

*Quartile (formerly Sidecar) is an AI-driven marketing platform that optimizes e-commerce to automate campaigns for businesses.*

- 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

*Qurate Retail Group is a global leader in video commerce, delivering seamless shopping experiences for millions of customers.*

- 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**.

## OPEN-SOURCE EXPERIENCE

**Lead Front End Engineer** • **Clean & Green Philly** (*cleanandgreenphilly.org*)    **Philadelphia, PA** • March 2024 — Present

*Clean & Green Philly is a community initiative focused on improving urban environments through sustainable practices, environmental advocacy, and volunteer-driven beautification projects to create cleaner, greener spaces across Philadelphia.*

- 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**    **Philadelphia, PA**

BSc in **Computer Science**    Graduated May 2019
Minor in **Data Science**

## TECHNICAL SKILLS

**Languages**:  TypeScript, JavaScript, Python, Ruby, Java, Kotlin, Swift, 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, Jest, Cypress, Cucumber, Sanity CMS, Storybook, Datadog, Sentry, Jenkins, VSCode, Android Studio, Figma, Jira, Confluence, Trello, Slack, Notion, Obsidian, Canva
**Interests**:  Privacy, Drumming, Running, Snowboarding, Rock Climbing    *U.S. Citizen*