

PAUL H. CHOI

paul@paulchoi.dev
www.paulchoi.dev
github.com/paulhchoi
linkedin.com/in/paulhchoi
Philadelphia, PA



PROFESSIONAL EXPERIENCE

SOFTWARE ENGINEER II

HACKERONE

June 2022 – August 2023

- Developed the core Penetration Testing and Assessments platform using **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 setup processes in Slack.
- Addressed two critical production support instances, leading to company-wide recognition for timely action.

SOFTWARE ENGINEER II

SIDECAR / QUARTILE

May 2021 – June 2022

- Developed the analytics platform using **Typescript**, **React**, **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**, and **GraphQL** resolvers.
- Modernized services by replacing SOAP connections with **gRPC** clients in **Python** and **Golang** services.
- 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 performance tracking.
- Mentored three new engineering hires by owning and refining the existing engineering onboarding process.

SOFTWARE ENGINEER

QVC

Jun 2019 – May 2021

- Integrated Google's Firebase Analytics library into the flagship application to monitor events from over 18 million global sessions annually, 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.
- Harmonized cross-platform brand experiences through close collaboration with product owners, iOS engineers, web developers, user experience designers, and content authors.
- Co-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**.

NON-PROFIT / COMMUNITY LEADERSHIP

DIRECTOR, DIGITAL TECHNOLOGIES

METRO

May 2019 – Present

- Lead the Digital Technologies team to ideate, develop, and launch a JAMstack web application using **Typescript**, **React**, **Node.js**, **Sanity CMS**, **PostgreSQL**, and **AWS (S3, CloudFront CDN)**.
- Orchestrated the site migration to **Next.JS** when the client asks grew to include more dynamic content.
- Reduced the annual operating cost by 60% by migrating to a self-hosted service with zero downtime.

LEAD FRONT-END ENGINEER

CLEAN & GREEN PHILLY

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.

MANAGER, TECHNOLOGY

GENESIS MINISTRIES YOUTH PROGRAM

(Summers) Aug 2016 – Aug 2020

- Developed a CRM platform managing \$50,000+ annually in registration payments and expenses, streamlining registration, check-in, and payment processes using PayPal's Instant Payment Notification service in **PHP**.
- Presented analyses & reports to executive stakeholders by processing historical registration data using **SQL**.

RESEARCH

DATA INTENSIVE AND CLOUD COMPUTING

TEMPLE UNIVERSITY

Jan 2019 – May 2019

- Wrangled and structured data by mapping schema discrepancies using **Python** and MapReduce in **Scala**.

EDUCATION

BACHELOR OF SCIENCE, COMPUTER SCIENCE

TEMPLE UNIVERSITY

Graduated May 2019

Minor in *Data Science*

GPA: 3.39 / 4.00

SKILLS

LANGUAGES

TypeScript
JavaScript
Ruby
Python
Java
Kotlin
Swift
C
SQL
GraphQL
Bash
PHP
HTML/CSS

FRAMEWORKS

React
Next.js
Tailwind CSS
Rails
Spring Boot

TOOLS

Git
Node.js
AWS
Docker
Kubernetes
Argo
gRPC
Sanity CMS
Datadog
Sentry
Jenkins
VSCode
Android Studio
Jupyter
Figma
Jira
Confluence
Trello
Slack
Notion

INTERESTS

Privacy
Lifehacks
Drumming
Snowboarding
Rock Climbing
Running

U.S. Citizen