

# Hunter Harris

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## Work Experience

**Software Engineer** | Chainguard 2024 – Present

- Patching CVEs, solving build problems, and general debugging of Wolfi packages and Chainguard container images.
- Working with Wolfi, melange, apko, Terraform, and other DevOps tools on a regular basis.

**Software Engineer** | Nuvalence 2022 – 2023

- Built custom software platforms and solutions for external companies and contributed to the company's open-source projects and internal tools.
- Took ownership of multiple business-critical backend microservices in Java and Spring Boot.
- Assisted with DevOps tasks such as maintaining infrastructure, profiling applications, debugging production issues, improving logging and reporting, and other tasks as necessary.
- Utilized Google Cloud Platform (GCP) resources (BigQuery, GKE/Kubernetes, GCS/Storage, JavaScript Cloud Functions, Pub/Sub) and Terraform to enhance software platforms.
- Executed full stack deployments to production and lower environments through GCP.
- Communicated with the team and external vendors in a fully remote environment, periodically prepared and led Agile meetings such as retrospectives, demonstrations, and standups.

**Web Developer and IT Professional** | Chadwick Financial Advisors *Freelance* | 2017 – Present

- Designing and maintaining an interactive and modern company website using WordPress.
- Emphasizing increased usability and accessibility for an improved user experience.
- Maintaining various company IT resources to ensure high organizational efficiency.

## Education

**Master of Science in Information Technology (IT)** 2021 – 2022

Rensselaer Polytechnic Institute. GPA: 3.87  
Concentration in Software Design and Engineering.

**Bachelor of Science in Information Technology and Web Sciences (ITWS)** 2018 – 2021

Rensselaer Polytechnic Institute. GPA: 3.72, Magna Cum Laude  
Concentration in Software Development and Networking.

## Projects

**Deciphering Kubernetes White Paper** | Master's Project 2022

- Researched and wrote an in-depth overview of Kubernetes core concepts, including how to build a Kubernetes cluster and how to prepare and deploy a real-world application.
- Applied the aforementioned concepts to improve another ongoing project, Poll Buddy.
- See <https://hbh7.com/dl/kubernetes-whitepaper.pdf> for more details.

**Poll Buddy** | Rensselaer Center for Open-Source Software 2019 – 2022

- Collaborated with a group of students as project leader and developer to design and create Poll Buddy, an interactive questionnaire platform accessible at <https://pollbuddy.app>.

- Architected and developed the main framework for the app, with the frontend in React and the backend in Express.js. Implemented a custom CI/CD system with Docker and GitHub Actions.
- Assisted in the overall management of the class as one of five student class coordinators.

#### **Smart Thermostat** | Personal project 2020 – Present

- Independently developing the hardware and software for an open-source, highly customizable smart thermostat that can be remotely controlled, or fully automated through scheduling.
- See <https://github.com/hbh7/SmartThermostat> for more details.

#### **Door System** | Personal project 2018 – 2022

- Engineered a flexible and secure remote keyless door entry/unlocking system that doesn't require modifications to the door. Built using a Raspberry Pi, Arduino, and a servo.
- See <https://github.com/hbh7/DoorSystem> for more details.

#### **Aperturama** | Course Project 2022

- Developed a photo backup and management Flutter application that uploads to a self-hosted server to maximize privacy and security of your photos.
- See <https://github.com/Aperturama> for more details.

### **Technical Skills**

- |                                       |                            |
|---------------------------------------|----------------------------|
| • Python                              | Proficient, 8+ years       |
| • Java                                | Proficient, 8+ years       |
| • Spring Boot                         | Experienced, 1+ years      |
| • Docker, Kubernetes                  | Proficient, 8+ years       |
| • HTML, CSS, JavaScript               | Proficient, 8+ years       |
| • PHP                                 | Proficient, 8+ years       |
| • WordPress                           | Proficient, 8+ years       |
| • NodeJS, Express                     | Proficient, 5+ years       |
| • React, TypeScript                   | Experienced, 3+ years      |
| • C, C++                              | Proficient, 4+ years       |
| • CI/CD, DevOps                       | Proficient, 5+ years       |
| • MySQL, MariaDB, PostgreSQL, MongoDB | Proficient, 5+ years       |
| • Data build tool (dbt), BigQuery     | Experienced, 1+ years      |
| • Cloud Technologies (Primarily GCP)  | Experienced, 3+ years      |
| • Git, GitHub, GitLab                 | Proficient, 8+ years       |
| • Mobile App and Game Development     | Experienced, 2+ years      |
| • Flutter                             | Experienced, 1+ years      |
| • Rust                                | Experienced, 1+ years      |
| • Go                                  | Currently developing skill |

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