



# Henry Romp

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## Summary

Highly motivated and results-oriented software developer with 11+ years of experience in designing, developing, and deploying robust and scalable applications. Proficient in multiple programming languages and frameworks, with a strong passion for problem-solving and continuous learning. Seeking a challenging role where I can contribute my skills and expertise to drive innovation and success.

## Skills

- **Programming Languages:** Python, C++, JavaScript
- **Frameworks:** React, Flask, Tailwind, Node.js
- **Databases:** MySQL, PostgreSQL, MongoDB, Snowflake
- **Cloud Platforms:** AWS, Azure, Google Cloud
- **Tools:** Git, Docker, Kubernetes, Jenkins,
- **Methodologies:** Agile, Scrum
- **Other areas of expertise:**
  - Linux, Networking, Cryptography, Security, Automation, Systems Administration, Hardware diagnosis and repair, Debugging, DevOps, DevSecOps

## Projects

### E-commerce Integration

- Developed a fully functional e-commerce backend integration to connect with Western Powersports and with Parts Unlimited, to add their product catalog to a Magento E-commerce website.

### Customer support management system

- Created a customer support system using Python & Flask, Twilio

### Refactoring and upgrading large codebase

- Led the refactoring and upgrade of a substantial, security-critical financial services codebase from Python 2 to Python 3. Developed a comprehensive test suite (unit, integration, and functional), achieving over 80% code coverage on a previously untested system. Worked with Flask, SQLAlchemy, Psycopg, PostgreSQL, and numerous related technologies and external APIs.

## Experience

**Lead Developer** | Metropolitan Motorbikes | Weehawken, NJ | 2013 - 2017

- Developed and maintained web applications using Python and Flask.
- Designed and implemented RESTful APIs for backend services.
- Developed and deployed a fully functional e-commerce website leveraging Magento, integrating custom Python modules for enhanced functionality.
- Engineered applications to interface with multiple distributors, automating the retrieval and population of product data, including descriptions, prices, and images, onto the e-commerce platform.
- Implemented data scraping techniques to extract product information from distributor websites, ensuring accurate and up-to-date product listings on the Magento platform.

**Cottonwood Vending** | New York, NY | Bitcoin ATM / Kiosk company

**Technical Support Representative** | 2017 - 2019 |

- Provided level II technical support via telephone, email, and web chat

**Developer** | 2019 - 2021 |

- Refactored significant portions of the codebase to improve performance and maintainability.
- Played a key role in the successful transition and upgrade of the company's systems from Python 2 to Python 3.
- Developed backend systems and tools specifically designed to enhance the efficiency of the customer support team.
- Contributed to the development and maintenance of the customer-facing website.
- Improved and maintained the software systems operating on over 300 Bitcoin kiosks throughout New York City, with a strong emphasis on security and reliability.
- Wrote unit and integration tests to ensure code quality.
- Debugged and resolved software defects and issues.

**Developer** | SPONGE Direct Air Capture | Granville, VT | 2019 - 2024

- Developed and maintained hardware & software for this startup DAC company.
- Built & designed second prototype of revolutionary direct air capture system

# Education

**GED** | Home-schooled | Middlebury, VT | 2007

- Self educated, studied extensively on
  - Pluralsight
  - Codecademy
  - Wikipedia
  - Saylor University
  - Numerous other online resources

My parents home-schooled my two siblings and myself. They called their homeschooling strategy "unschooling" and believed that "children will learn on their own, and as a parent you need only to provide them with the right resources and stay out of their way."

I took the GED test as soon as I was old enough to do so (16) and passed on my first try, and have continued to self-educate ever since. My interest in computer science began when my father bought me a copy of the book "Gödel, Escher, Bach: an Eternal Golden Braid" by Douglas Hofstadter when I was 13. I have passionately pursued knowledge and educated myself in the subjects that have interested me, including evolutionary biology, cryptography, computer security, economics, music, language, psychology, and botany.

While I continue to read and study in a wide range of subjects, my attention for the last six years has been more and more focused on computer science. I am currently studying on a platform called Pluralsight, which has intensive developer-training programs.