



Henry Romp

Full-Stack & Backend Engineer

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OVERVIEW

Henry Romp is a self-taught full-stack and backend engineer with over eleven years of production experience building, deploying, and maintaining software systems across a wide range of domains — from financial infrastructure and climate technology to open-source tooling and consumer applications. He is known for taking end-to-end ownership of complex systems, shipping clean and well-tested code, and operating effectively in fast-moving, resource-constrained environments.

Henry's technical foundation is deep and broad: Python, React, PostgreSQL, AWS, Docker, FastAPI, Flask, and React Native form the core of his stack, complemented by hands-on experience in Linux systems administration, cryptography, DevSecOps, and hardware-software integration. He has contributed merged pull requests to Bitcoin Core (github.com/bitcoin/bitcoin), one of the most security-critical and peer-reviewed open-source codebases in the world.

PROFESSIONAL EXPERIENCE

Henry's career spans three substantive engineering roles across fintech, climate tech, and e-commerce, each involving significant backend ownership and direct production impact.

- **Cottonwood Vending (Bitcoin ATM / Kiosk, NYC, 2017–2021)** — As a developer at one of New York City's largest Bitcoin kiosk operators, Henry maintained the Python backend powering a fleet of over 300 deployed machines. He led the full migration of a security-critical financial codebase from Python 2 to Python 3, building an 80%+ coverage test suite from scratch across unit, integration, and functional layers.
- **SPONGE Direct Air Capture (Granville, VT, 2019–2024)** — Henry served as the sole developer for a climate-tech startup building a novel direct air capture system, owning both the hardware integration and software stack and leading development of the company's second working prototype.
- **Metropolitan Motorbikes (Weehawken, NJ, 2013–2017)** — As Lead Developer, Henry built a full Magento e-commerce platform with custom Python backend modules, automated distributor catalog integrations, and RESTful API services.

OPEN-SOURCE PORTFOLIO

Henry maintains an active open-source portfolio of deployed, production-quality projects at hromp.com/portfolio. Representative work includes:

- **RompMusic** — A fully self-hosted, GPL-licensed music streaming platform. FastAPI/PostgreSQL backend with JWT authentication, HTTP range request support, and Docker deployment; React Native/Expo client for Android, iOS, and web with gapless playback.
- **Anthill** — A Godot 4.2 grain-scale voxel ant colony simulator modeled on *Lasius niger* biology, with pheromone diffusion fields, brood life cycles, and CSV instrumentation for research validation.

SUMMARY

Henry brings over a decade of full-stack and backend engineering experience, a demonstrated ability to own complex systems from architecture through production, and an active open-source practice that reflects genuine technical curiosity and range. He is available for remote full-time engagement and is targeting roles at the senior level.