

GARRET WASHBURN

Louisville, KY

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PROFILE

Systems-oriented early-stage engineer focused on backend systems, Java and Python services, Linux platforms, and practical software. I have hands-on experience across full-stack applications, Linux-focused systems work, and production-minded project delivery, and I am eager to keep learning while contributing to strong engineering teams.

EXPERIENCE

CodingMinds, Inc.

08/2023 – Present

Instructor, Full-Stack Project Instructor & Curriculum Developer

Remote

- Build and teach full-stack projects using Java and Python backends, Flutter frontends, and database tooling including Firebase and Appwrite.
- Develop reusable curriculum and guide student projects involving backend engineering, API design, machine learning concepts, and practical application delivery.
- Coordinate app review, compliance, and publication workflows with Apple App Store and Google Play review teams.

libdnf5-rust-bindings

2025 – Present

Open Source Maintainer & Systems Contributor

Recently Published

- Recently published a Rust binding for the `libdnf5` package management library after developing the project at the University of Louisville in 2025.
- Designed FFI boundaries and safe abstractions with a focus on memory safety, maintainability, and Linux systems integration.
- Built the project under mentorship from Eric Sage at Apple and instruction from Jeffrey Squyres at Cisco.

RATSNEST LLC

06/2025 – Present

Founder & Engineer

Remote

- Operate and maintain microservices, including CheeseScribe, a writing generation platform.
- Manage architecture, deployment, and occasional maintenance with back and frontend functionality.

ACHIEVEMENTS

University of Louisville EDIS Presentation

2025

- Earned 2nd place for presenting `libdnf5-rust-bindings` as a capstone systems project.

KYCombinator Hackathon

2025

- Earned 2nd place at the KYCombinator hackathon in a collaborative, deadline-driven build environment.

SELECTED PUBLICATIONS

A Self-Reflective Retrieval Augmented Generation System to Eliminate Hallucination in LLM Generation

Co-author; full publication list available on portfolio.

Fitflip: A Community-Driven, Zero-Fee Alternative to Online Clothing Marketplaces with Optimized User Experience

Co-author; full publication list available on portfolio.

EDUCATION

University of Louisville

May 2026

B.A. in Computer Science

Cumulative GPA: 3.695

TECHNICAL STRENGTHS

Languages & Systems

Python, Java, Rust, Linux systems programming, C/C++

Backend & Cloud

Flask, backend APIs, database design, cloud deployment

Architecture

systems design, API ergonomics, maintainable software, production operations

Product Work

AI integration, SaaS development, Flutter-based frontend guidance, technical mentoring