



RYAN GERARD WILSON

Product Engineer & Data Scientist

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SKILLS

Python
Rust
PHP
JavaScript
Node.js
Laravel
FastAPI
Flask
Next.js
React
Tailwind CSS
Flutter
Machine Learning
OpenAI API
XGBoost

EDUCATION

B.A. LL.B. (Hons.)
Dr. Ram Manohar Lohia National Law
University, Lucknow
2015

Goethe-Zertifikat B1
Goethe-Institut e.V.

ABOUT ME

Product engineer and data scientist with over 10 years of experience spanning full-stack development, data science, and intellectual property law. Proven track record of driving business impact through technical innovation, including boosting supply efficiency by 20% and reducing technical debt by over 90%. Expertise in building and launching products from scratch, deploying machine learning models, and navigating complex legal and technical landscapes. Combines first-principles thinking with a builder mindset to ship fast, simplify ruthlessly, and deliver measurable results.

WORK EXPERIENCE

Oct 2022 - Present

Entrepreneur-in-Residence

Wiom | Gurugram, Haryana, India

- Genie (2025): Increased supply efficiency by 20% (15% from core rewrite + 5% from ML integration). Reverse-engineered and redeployed an undocumented legacy algorithm with zero downtime after the original creator's departure.
- CRM Forge (2024): Developed a streamlined platform (~7k LOC) that provisions custom CRM workflows via JSON configs in 2–3 minutes, consolidating and replacing five legacy systems (~100k LOC total). Enabled cross-functional teams to align and deploy tailored solutions in hours.
- Happy (2023): Decreased call-center dependency by ~5x while enhancing customer outcomes and agent satisfaction. Designed a telephony bot with lightweight CRM for escalations, plus a Hindi/Hinglish AI chatbot for instant, brand-consistent scripting—delivering quicker resolutions, reduced agent frustration, and consistent quality during demand spikes.
- Beyond core responsibilities, leveraged tech, IP, and corporate law expertise to shape Wiom's IP strategy, safeguard innovations, and aid fundraising through pitch deck refinements and investor legal diligence.

Jun 2021 - Sep 2022

Solo IndieHacker

- Built and launched three full-stack Laravel products from scratch while bootstrapping under tight financial constraints.
- Handled the complete product lifecycle including market research, backend and frontend development, branding, and direct sales.
- Executed sales and networking strategies, engaging with over 50 events to drive product adoption and gather market feedback.

Dec 2015 - Apr 2022

Intellectual Property & IP/Tech Lawyer

Sujata Chaudhri IP Attorneys (SCIP) & Rahul Chaudhary & Partners

- Promoted to Senior Associate 3-5 years ahead of peers through strong performance in high-stakes litigation.
- Helped secure an interim injunction in the landmark 2016 Rubik's Cube trade dress case (Seven Towns v. Kiddiland).
- Handled hundreds of trademark disputes, resolving most via pre-litigation mediations and favorable settlements, saving clients substantial time and costs.

Apr 2015 - Nov 2015

Marketing Associate

Rainmaker

- Drove higher email open rates and engagement via personalized, A/B-tested Mailchimp campaigns with custom HTML designs.

- Curated genuine customer testimonials that built trust and increased site conversions.
- Planned and executed a high-energy on-campus quiz for over 300 law students, boosting brand visibility and capturing leads.

PROJECTS

ai

[View Project](#)

- Extensible AI Tooling: Built Vim-first CLI using OpenAI Responses API with tools for file editing, diff auditing, interactive Q&A, and repository analysis via tool calling and reasoning streaming.
- Secure User Controls: Implemented Git safeguards to prevent auto-commits, sandboxed shell commands, user confirmation for changes, secure API key storage, PyInstaller single-binary distribution, semantic versioning, and configurable debug options for safe AI workflows.

xyz

[View Project](#)

- Outcome-Oriented Task Tracker: Built terminal-native, Vim-first TUI using curses for JTBD-framed tasks (trigger-outcome-impact), with North Star metrics scoring, bucketed workflows, and agenda/month views for strategic prioritization.
- Efficient Persistence and Usability: Used CSV-backed storage with CalendarService for reliable data handling, deterministic CLI flags for scripting and automation, JSON/inline editing, XDG-compliant config, and PyInstaller binaries for keyboard-driven task management.

o

[View Project](#)

- Vim-Inspired Directory Browser: Built lightweight terminal file manager using curses with dual UI modes (animated Matrix raindrop columns and classic list), Vim-style navigation, glob filtering, multi-select clipboard (yank/cut/paste/delete), and quick file opening in editors/viewers like Vim/Zathura.
- Customizable Usability Features: Implemented XDG-compliant JSON config for custom file handlers and modes, leader shortcuts for bookmarks/renames/new files, command mode for shell execution, help cheatsheet, and binary installation script for efficient, keyboard-driven workflows.

rt

[View Project](#)

- Interactive Programming Tutor: Built terminal CLI parsing Markdown into typing lessons with rote/touch modes, accuracy validation (>90%), skip directives, in-place editing, bookmarks, and Grok AI integration for upload/search/Q&A.
- Flexible Configuration and Integration: Featured XDG-compliant config for portability, CLI flags for training/status/purge, shell installer, and API client for Grok AI-enhanced, portable educational workflows.

vixl

[View Project](#)

- Vim-First Spreadsheet Editor: Developed terminal-native, curses-based tool for tabular data using Pandas and NumPy, featuring Vim-style navigation, external Vim cell editing, visual block selection/copy/paste, row/column operations, and command bar for Python expressions on DataFrames.
- Advanced Customization and Controls: Included fuzzy expression search, user-defined extensions for DataFrame mutations, undo/redo/history, auto-reloadable JSON config for shortcuts/clipboard, and support for CSV/Parquet I/O with PyInstaller binaries for efficient workflows.

gtkv (gtk4-vim)

[View Project](#)

- Vim's design meets graphics. Inline images without leaving the modal flow. GTK4-first editor that keeps Vim muscle memory intact while enabling visuals.

- Saves self-contained .gtkv.html files with base64-embedded images.

RGWML

[View Project](#)

- Comprehensive Rust ML Library: Created AI, data science, and machine learning crate replicating Python Pandas, with support for CSV/JSON handling, database integrations (MySQL, SQL Server, BigQuery), OpenAI API calls, XGBoost models, and neural network structures like NeuralAssociations2D.
- Developer-Focused Utilities: Featured data transformation tools including pivots, expressions, and dask-like operations to reduce cognitive load, achieving over 200,000 downloads for efficient, performance-oriented workflows in Rust.

ACCOMPLISHMENTS

Certifications

- **XGBoost Deep Dive with Python & Pandas** - Hands on Data Science
- **Google Apps Script Complete Course Beginner to Advanced** - Udemy
- **Learn Rust by building Real Applications** - Udemy
- **AWS Amazon S3 Mastery Bootcamp** - Udemy
- **PHP OOP: Object Oriented Programming for Beginners + Project** - Udemy
- **Crash Course - Learn to Create a PHP MVC Framework** - Udemy
- **Modern JavaScript From The Beginning** - Udemy