Ryan Gerard Wilson

Product Engineer & Data Scientist

CONTACT

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EDUCATION

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

Goethe-Zertifikat B1
Goethe-Institut e.V.
2007

SKILLS

Python

Rust

PHP

JavaScript

Node.js

Laravel

FastAPI

Flask

Next.js

React

Profile

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.

Experience

Entrepreneur-in-Residence, Wiom   *Oct 2022 - Present*

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.

Solo IndieHacker,   *Jun 2021 - Sep 2022*

- 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.

Intellectual Property & IP/Tech Lawyer, Sujata Chaudhri IP Attorneys (SCIP) & Rahul Chaudhary & Partners

Dec 2015 - Apr 2022

- 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.

Marketing Associate, Rainmaker   *Apr 2015 - Nov 2015*

- 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.

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.

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.

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.

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