



Contact

- jimi.vaubien@protonmail.com
- jimivaubien.me
- bitswired.com
- github.com/jimzer
- github.com/bitswired
- linkedin.com/in/jimi-vaubien
- youtube.com/@bitswired

GitHub Stats

- 1333** GitHub Stars
- 7** Years In Industry
- 4** Published Packages
- 3** Competition Wins

Education

Master - Data Science

Ecole Polytechnique Federale de Lausanne
2019 | GPA: 5.16/6

Bachelor - Communication Systems

Ecole Polytechnique Federale de Lausanne
2016

Competitions

LauzHack - 2017

Hackathon
1st place (Cisco Challenge)

Machine Learning - 2017

Competition
1st / 63 Tweet Sentiment Analysis

Data Visualization - 2017

Competition
15th / 160

Start Hack - 2016

Hackathon
1st place (Zühlke Robochallenge)

IEEE Extreme - 2015

Competition
136th / 2000 (5th in Switzerland)

Jimi Vaubien

AI Engineer

Senior Machine Learning Engineer with 7 years building production AI systems from research to deployment. At Prometee, I led the development of a GenAI platform serving 4 production client companies, managing a team of 3 engineers. My work spans the full AI stack: training custom models at Schlumberger (10x speedup), deploying fraud detection systems running 2+ years in banking/pharma at Visium, and building LLM-powered agents with human-in-the-loop architectures. Creator of open source tools with 1,300+ GitHub stars and published packages across PyPI, npm, and crates.io. I speak at AI conferences and teach modern development practices through workshops and my YouTube channel.

Open Source

Featured Packages

Kiru (8☆) <https://github.com/bitswired/kiru>

High-performance text chunking library for RAG applications with Rust core and Python bindings.

FoldCMS (23☆) <https://github.com/bitswired/foldcms>

Type-safe content management system built with Effect, supporting multiple formats with SQLite-backed performance.

LazyCodr (45☆) <https://github.com/bitswired/lazycodr>

AI-powered CLI tool for automating developer workflows including PR descriptions, commit messages, and documentation.

Featured Projects & Tutorials

RustGPT (699☆) <https://github.com/bitswired/rustgpt>

ChatGPT UI built with Rust and HTMX demonstrating modern web development without JavaScript frameworks.

FuseAI (293☆) <https://github.com/bitswired/fuseai>

Self-hosted open-source web application for interacting with OpenAI APIs, supporting multi-user deployments with Docker.

Website-to-Knowledge-Base (79☆) <https://github.com/bitswired/website-to-knowledge-base>

AI-powered knowledge base converting websites into searchable LLM-powered Q&A systems with source citations.

Demos (62☆) <https://github.com/bitswired/demos>

Complete source code repository for Bitswired YouTube channel tutorials covering Effect, Python, MCP, AI agents, and advanced web development.

Professional Experiences

Lead AI Engineer

Prometee 2023 - 2026, ☺ Lausanne, CH

Led AI engineering team building GenAI platform and custom AI agents for enterprise clients across finance, accounting, and trading sectors.

Impact: Deployed GenAI platform to 4 production clients; automated financial audit workflows eliminating manual document tagging; built trade settlement agent handling complex email-based workflows with human-in-the-loop fallback

Data Engineer

Proxinea 2023, ☺ Zurich, CH

Modernized data infrastructure for pricing and churn models, migrating manual SQL pipelines to DBT and Dagster with robust CI/CD.

Impact: Successfully migrated manual SQL pipelines to automated DBT/Dagster architecture; implemented modern CI/CD pipeline with semantic versioning

Skills

Languages

- Python (7 years)
- TypeScript (5 years)
- SQL (6 years)
- Rust (2 years)

ML Frameworks

- PyTorch
- Tensorflow/Keras
- Hugging Face

LLM & GenAI

- Gemini / OpenAI / Claude
- RAG Systems
- Agents / Multi-Agent Systems
- Vector Databases

Cloud Platforms

- GCP
- Azure
- Cloudflare
- AWS

DevOps

- Docker
- Terraform
- Kubernetes

Data Engineering

- DBT
- Dagster
- Apache Beam

Databases

- PostgreSQL
- Redis

Web Frameworks

- FastAPI
- Bun/Node
- React
- HTMX
- Axum

Misc

Nationality: **French**

Swiss Residency: **C Permit**

Birth Date: **1993-07-14**

Spoken Languages: **French, English**

Senior Machine Learning Engineer

Visium Technologies SA

2018 - 2023, ☺ Lausanne, CH

Developed and deployed end-to-end AI solutions for clients across banking, pharma, and e-commerce, progressing from part-time engineer to senior while managing technical teams.

Impact: Delivered multiple production systems running 2+ years in banking and pharma, passed external security audits, with solutions reused across projects

Main Teaching Assistant & Full Stack Development

Universite De Lausanne

2018 - 2026, ☺ Lausanne, CH

Principal TA for Python course and full-stack developer for job seeker web application with A/B testing, now used by state administrations.

Impact: Web application adopted by official state administrations

Research Intern - Master Thesis

NEC Labs

2019, ☺ Princeton, USA

Researched unsupervised deep learning for manufacturing defect detection using One Class SVM, Autoencoders, and GANs.

Impact: 6/6 grade

Teaching Assistant - Information, Computation and Communication

Ecole Polytechnique Federale Lausanne

2016 - 2019, ☺ Lausanne, CH

Reviewed lab content, assisted students during exercise sessions, and graded exams.

Teaching Assistant - Computer Networks

Ecole Polytechnique Federale Lausanne

2016 - 2018, ☺ Lausanne, CH

Reviewed lab content, assisted students during exercise sessions, and graded exams.

Research Intern

Schlumberger Doll Research

2017, ☺ Boston, USA

Accelerated geological simulations 10x using Conditional GANs and developed RNN-based time series predictions for sea level modeling.

Impact: Achieved 10x speedup versus physics-based simulation; predictions integrated into downstream modules

Full Stack Developer

Vlynt

2017, ☺ Lausanne, CH

Developed server load balancing solution including CRUD APIs, React components, and D3.js visualizations.

Impact: Successfully shipped features to production

Full Stack Developer

TasteHit

2016 - 2017, ☺ Lausanne, CH

Built embeddable real-time search widget for eCommerce recommendation engine at startup that became MassChallenge finalist and was acquired.

Impact: Company became MassChallenge incubator finalist and was subsequently acquired