Driss Briksine

Software & ML Engineer – AI systems, agents and production software

✉ driss@briksine.com | briksine.com | linkedin.com/in/driss-briksine | github.com/drissbri

Remote, working with teams worldwide | Available for freelance projects and long-term collaboration

Profile

I build AI systems and production software end to end: multi-agent pipelines, local and multimodal AI, ML models, and the full-stack products around them. My background is in statistics and data science, and I ship production code in Next.js, TypeScript, Python and PostgreSQL. I run my own engineering through an agent workflow with parallel implementer agents, hard quality gates and adversarial AI review, so one engineer delivers like a team. Recent work spans a production trading terminal, an autonomous video-production system with 14 agents, a robotic bin-picking pipeline, and LLM-powered SaaS products.

Technical Skills

AI systems & agents	Multi-agent orchestration, Claude Code subagents, LLM APIs (Anthropic, OpenAI, Gemini), RAG, fine-tuning, local inference with open models, cost-efficient AI design
ML & vision	PyTorch, scikit-learn, TensorFlow, custom neural networks, CNNs, Vision Transformers, segmentation, 3D perception, time-series forecasting
Frontend	Next.js, React, TypeScript, JavaScript, Tailwind CSS, TradingView Lightweight Charts, responsive UI
Backend	Node.js, Python, FastAPI, Flask, Django, Express, REST APIs, authentication, background jobs, webhooks
Data	PostgreSQL, Prisma, SQLAlchemy, MySQL, SQLite, MongoDB, Redis, Pandas, NumPy, Power BI
Quality & DevOps	Playwright visual regression, Jest, ESLint, CI/CD, Docker, Vercel, Cloudflare, AWS, DigitalOcean, Nginx, Git
Automation	Web scraping (Selenium, Puppeteer), email automation, API integrations, workflow orchestration

Professional Experience

Full-Stack Software Engineer – Freelance Jul 2026 – Present

Throughput (dev agency) – Trading Terminal Remote

- One of the engineers on a production multi-broker trading terminal, working alongside the lead developer from an approved design prototype and a strict API contract; 359 of my commits in a 2,000+ commit team repository.
- Built charting infrastructure, a sandboxed indicator runtime, watchlists, broker and account components, and trade-entry workflows across the Next.js frontend and Node.js runtime.
- Contributed backend execution contracts, capability gating, validation, authorization, CSRF and security fixes, and Playwright visual-regression tests for both themes.
- Deliver every change through a multi-agent pipeline I designed: parallel implementer agents in isolated git worktrees, lint/test/build/E2E gates before each push, and an adversarial reviewer agent with per-commit approval.

Software Lead, Robotics Team – Freelance Jan 2025 – Present

AutoMates Robotics – Antwerp, Belgium Hybrid

- Responsible for the software of PickNet, a robotic bin-picking system: perception, 3D pose estimation, robot hand-off and the operator GUI.
- Built end-to-end ML pipelines for labeling, synthetic data generation, training, inference and deployment of perception models on 2D and depth data.

Data Science Intern Apr 2024 – Jul 2024

OCP SA – Safi, Morocco

- Designed interactive Power BI dashboards for sulfuric acid production, enabling real-time KPI monitoring and operational decisions.
- Built a predictive maintenance model for a key turbine, forecasting Mean Time Between Failures to reduce downtime.

Selected Projects

Case studies with screenshots: briksine.com/work

Trading Terminal – Throughput Next.js, JavaScript, Node.js, Lightweight Charts, Playwright

- Production charting: candle rendering, crosshair interactions, session bands, chart replay, live theming, 10+ drawing tools and undo/redo.
- Draggable position lines with take-profit and stop-loss handles that preview the protection order before it is sent.
- Sandboxed indicator-script runtime with capability gating and deterministic error handling, so a broken script can never take the terminal down.

VidForge – Autonomous AI Video Production Multi-agent system, local generative AI

- Pick a subject, get a finished 10–15 minute YouTube video: scout agents research and pitch about 20 ideas, I choose one, and a Director agent runs production through 13 specialist agents, overnight if needed.
- Narration, a talking AI host, generated images and upscaling run on local models, scheduled one model at a time so a single 16 GB GPU runs the whole pipeline.
- Every video is a structured plan, checked automatically and assembled into the final edit; a packaging agent produces test sets of titles and thumbnails.

Syvera – AI Trading Bot Creator Next.js, TypeScript, PostgreSQL, LLMs

- Co-developer and product designer of an app where traders describe a strategy in plain language and an AI copilot turns it into an automated trading bot, exportable to MetaTrader and TradeLocker.
- Owned product architecture, user flows and technical design, then delivered UX research and a full UX/UI revamp of complex tools such as risk management and strategy building.

Sendline – LLM-Powered Email Outreach Platform Next.js, TypeScript, PostgreSQL, Prisma, Anthropic API

- Built from scratch: schema design, multi-step campaign wizard and a sending engine with sender rotation, per-sender rate limits, warmup and randomized delivery.
- LLM-generated variations so no two recipients get the same email, plus automated reply flows with AI-generated or template responses, open/click tracking and sender health monitoring.

RewardRabbit – Full-Stack SaaS Rewards Platform Next.js, React, Node.js, PostgreSQL, Vercel, Cloudflare

- Architected, built and deployed a platform where users complete offers, earn points and redeem them for real services, with offer, fulfillment, email and webhook integrations.
- JWT authentication, email verification, rate limiting, IP validation, middleware access control, an admin dashboard and automated order processing.

PickNet – Robotic Bin Picking Python, PyTorch, FastSAM, Open3D, ROS 2, MoveIt 2, Docker

- Five-service pipeline from camera frame to grasp pose in about 3.3 s: FastSAM segmentation on a GPU worker, CAD registration with RANSAC and ICP, VSD scoring, and a ROS 2 bridge to a MoveIt 2 state machine.
- Training work on grasp-quality models (CNNs, Vision Transformers) with synthetic data, plus per-run timelines and performance reports used to profile the pipeline.

Open Source: LinkedIn Scraper API & LiveTranscribe FastAPI, Selenium, faster-whisper, PipeWire

- LinkedIn Scraper API: profile and company data as a clean REST microservice for AI and SaaS products; 41 stars and 11 forks on GitHub.
- LiveTranscribe: live transcription of any app's audio with Whisper running entirely on the local machine, with audio routing restored on exit.

Education

Master in Statistics and Data Science Sept 2024 – Aug 2026
Hasselt University – Diepenbeek, Belgium

Bachelor in Data Science Sept 2021 – Jul 2024
Mohammed VI Polytechnic University – Ben Guerir, Morocco

Languages

Arabic	Native
English	Fluent (IELTS C1)
French	Professional working proficiency