

Fiona Roch

Senior Full Stack & AI Engineer

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SUMMARY

Full Stack and AI Engineer with over 9 years of experience building products from the ground up. Recent work centers on LLM tool calling and AI agents in production.

Founding engineer at two startups and solo founder of my own app, owning products end to end from first idea to launch. I am relentlessly product-minded. I ask why before building, ship the smallest MVP first, and weigh ROI against dev cost and time. I learn new stacks fast and hold myself to an exacting standard for code quality. I obsess over the edge cases most engineers skip and take real pride in shipping robust code that stays stable in production.

SKILLS

Languages: TypeScript, JavaScript, Python, Java, Kotlin, C++, C

Frontend: React, Next.js, React Native, Expo, Tailwind CSS, Vue.js, Angular, HTML/CSS/SASS, Amplitude, Mixpanel

Backend & APIs: Node.js, NestJS, Express.js, Django, Spring Boot, REST, GraphQL, WebSockets, microservices, BullMQ

AI & LLM: Claude API, OpenAI API, AWS Bedrock, MCP (Model Context Protocol), tool calling, AI agents, prompt engineering, streaming responses, Langfuse, RAG (Retrieval-Augmented Generation)

Cloud & data: PostgreSQL, Redis, Elasticsearch, AWS, GCP, Docker, Terraform, CI/CD

Tools: Linear, Jira, Notion, Retool, Claude Code, GitHub, GitLab, Jest, Playwright, Agile/Scrum

Spoken languages: French (native), English (fluent), Korean (limited working proficiency), Japanese and Spanish (elementary)

EXPERIENCE

Founder & Freelance Software Engineer, *Filabs (Self-employed)* May 2024 - Present
Remote (International)

Senior Software Engineer, *VirtualBrain* Sep 2025 - Present

RAG AI platform for private equity firms and consultants across Europe.

- Built a PPTX deck generation and editing system driven by Claude tool calling, with custom tools and automated screenshot validation, across thousands of uploaded and generated decks.
- Designed its ingestion pipeline: Redis-backed BullMQ queues split each deck, extract content, tag templates with LLM metadata and screenshots, then remerge slides as XML on generation.
- Migrated a 350 GB Elasticsearch cluster of 4M+ documents between AWS instances and redesigned its index strategy, cutting 40,000 shards to 700.
- Ran production database migrations of 5M+ rows, consolidating three parallel message systems into a unified schema.

Stack: Node.js, Python, BullMQ, Redis, PostgreSQL, Tailwind, AWS, Elasticsearch, Claude

Founder, *Omeet* May 2024 - Present

Social app for expats.

- Designed, built, and launched a web and mobile app end to end as solo founder, now live on the App Store and Google Play with 2,200+ users.
- Owned the full product lifecycle: frontend, backend, DevOps, analytics, and marketing.
- Built a custom AI moderation agent that screens user-generated content in real time for safety and compliance.

Stack: React Native, Expo, TypeScript, NestJS, GCP, OpenAI API, Mixpanel

Senior Full Stack Engineer, *Firstbase* Dec 2022 - Dec 2024 (full-time, then freelance)
Remote (US). *B2B logistics and equipment platform for distributed teams.*

- Implemented and maintained logistics and equipment features, covered by unit, integration, and e2e tests.
- Was the engineer in charge of integrations, working directly with 30+ enterprise clients and external contractors.
- Shipped 10+ enterprise integrations in Kotlin against public APIs (Okta, NetSuite, Workday, Workato, Merge.dev HRIS, Segment/Mixpanel), including a custom ServiceNow sync for customer assets.
- Wrote and reviewed technical specifications and ran technical and team meetings.

Stack: TypeScript, React, Tailwind, Java, Kotlin, Spring Boot, GraphQL, REST, Workato

Senior Software Engineer, *Alan*

May 2022 - Sep 2022

Remote (France). *Healthtech, one of Europe's largest health insurance startups.*

- Built solutions for the Alan Mind team to raise awareness on mental healthcare and wellbeing.
- Addressed security issues and optimized infrastructure for the security, infra, and privacy teams.

Stack: React, React Native, Python, Flask, Terraform

Founding Engineer, *Vanpl*

Mar 2021 - Mar 2022

Remote (South Korea). *Online marketplace for camping car rentals.*

- Built the booking platform and back-office from the ground up as first and lead engineer.
- Led the 3-engineer team, reviewed code, mentored junior developers, and planned sprints based on team velocity.
- Set up CI/CD pipelines and cloud deployments.
- Created templates and processes for business, functional, and technical specifications.
- Introduced data-driven retrospectives.

Stack: TypeScript, Node.js, Vue.js, Jest, GitHub Actions, AWS, Mixpanel

Founding Engineer, *Seearth*

Feb 2020 - Jan 2021

Daegu, South Korea. *Ecommerce company selling physical and digital products.*

- Built the company's ecommerce platform end to end as the sole engineer, from architecture and frontend to backend and deployment.
- Developed a custom storefront selling physical and digital products internationally, handling 100+ orders a day, primarily across Asia.
- Integrated 5+ payment providers to support international transactions.
- Built an internal back-office aggregating data from multiple websites with advanced charts and filtering.

Stack: Angular, Node.js, Express.js, D3.js

Front End Developer, *Ipkiss*

Sep 2018 - Sep 2019

Remote (France). *Web and mobile app studio.*

- Developed an online tattoo booking platform.
- Maintained a video game matchmaking application.
- Developed an online game quiz application.

Stack: Angular, AngularJS, Vue.js

Web & Mobile Developer, *MHComm*

Mar 2016 - Aug 2017

Toulouse, France. *Healthtech and medical software company.*

- Designed and developed a web app to follow the health of patients.
- Built a mobile application from the ground up.
- Integrated third-party embedded medical devices for health monitoring.

Stack: AngularJS, Django, Ionic

Internships and Part Time Experiences

2014 - 2016

Vega France, Technic Soft, Epitech, Toulouse, France

- Maintained management software for large distribution groups.
- Developed an internal monitoring platform for embedded machines and automated their setup and deployment.

Stack: C++, Shell

EDUCATION

Certificate in Entrepreneurship Essentials

2023

Harvard Business School Online, Remote

Master's degree in Computer Science

2019

EPITECH European Institute of Technology, Paris, France

Exchange year at Keimyung University, Daegu, South Korea

Bachelor's degree in Computer Science

2016

EPITECH European Institute of Technology, Toulouse, France