

# Liam Turner

Software Engineer

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## PROFILE

I'm a back-end-leaning full-stack engineer with several years of experience in the JavaScript ecosystem and proficiency in TypeScript, SQL, React, and cloud computing. I excel at breaking down complex problems systematically and communicating technical concepts with precision, abilities sharpened during my previous career as a lawyer. I recently created Frame - a solution for developer teams that need sophisticated, embedding-powered image search and recommendation capabilities.

## EXPERIENCE

**Creator & Software Engineer**, Frame  2024 – present

Frame is a multimodal image embedding and search platform that deploys directly to a user's AWS account.

- Architected scalable, serverless infrastructure using AWS Lambda, S3, API Gateway, and SQS with a cost-efficient, scale-to-zero design.
- Developed a fully type-safe API using Hono and Zod for schema validation, automatically generating OpenAPI documentation.
- Implemented robust image validation and preprocessing pipelines for downstream multimodal embedding models using the Sharp image processing library.
- Engineered asynchronous request handling with SQS queues and retry logic, decoupling user requests from embedding workflows to minimize latency.
- Built an SDK to streamline developer integration and simplify interaction with the Frame API.
- Automated infrastructure deployments with CLI tooling powered by the AWS CDK, reducing a 30+ step workflow to a few commands.
- Authored a comprehensive case study outlining the problem space, technical trade-offs, and architectural decisions that led to the development of Frame (<https://www.frame-platform.com/> ).
- Orchestrated remote collaboration with an international team of four engineers across multiple time zones.

**Software Engineer**, Open-Source Projects 2022 – 2024

Led the development of open-source projects focused on developer tools and applied AI, including:

- Grains: A restaurant dish recommendation engine using retrieval-augmented generation (RAG) to extract insights from Google Maps reviews. Built with React, TypeScript, Node.js, Express, PostgreSQL+pgvector, OpenAI API integration with Redis caching and Zod for standardized LLM output validation.
- HookHaven: A full-stack webhook testing tool for inspecting HTTP requests. Built with React, TypeScript, Node.js, Express, PostgreSQL, MongoDB, with NGINX-based routing, deployed on DigitalOcean.

**Senior Real Estate Lawyer**, Womble Bond Dickinson & Gowling 2016 – 2024

- Managed multimillion-pound property transactions for national housebuilders and local authorities, overseeing projects from initial title review to acquisition and sales.
- Led cross-departmental, multi-office collaboration to complete large-scale infrastructure deals to tight deadlines.
- Mentored and supervised junior team members, providing technical guidance and professional development while maintaining quality standards and fostering a collaborative and positive work environment.
- Analyzed complex legal documentation, mitigated client risk and translated technical concepts into clear, actionable insights to drive stakeholder decision-making.

## SKILLS

### Front-end

JavaScript, TypeScript, React, HTML/CSS, Astro, Axios, WebSockets

### Back-end

Node.js, Express, PostgreSQL (incl. pgvector), MongoDB, Redis, REST APIs, Zod, Hono, Ruby, Sinatra,

### Cloud

AWS (Lambda, S3, IAM, CDK, API Gateway, Secrets Manager, Bedrock, RDS, SQS), Digital Ocean, Heroku

### Other

Git/GitHub, SQL, HTTP, OpenAI, Docker, Postman, Nginx, Linux, Bash, Jest, OpenAPI

## EDUCATION

**BPP Law School**, Legal Practice Course 2015 – 2016  
Distinction

**Newcastle University**, Law LLB Honours Degree 2012 – 2015  
1st Class Honours