

Viktor Sharha

Computer Science Student — AI & Full-Stack

+44 7771 432 765 | vsharha07@gmail.com | linkedin.com/in/vsharha | github.com/vsharha | viktorsharha.com

EDUCATION

University of Edinburgh

Sep 2024 – May 2028

BEng Computer Science, 2nd Year

Edinburgh, Scotland

- First Year Average: **85% (First Class Honours)** — Introduction to Computation (**100%**), Introduction to Linear Algebra (**93%**)

EXPERIENCE

VDrive Car Servicing & Diagnostics

Jun 2025 – Present

Software Engineer — Full Stack & Automation

Edinburgh, Scotland

- Cut monthly bookkeeping from **10 hours** to **under 30 minutes** for a car servicing business — built an AI pipeline that deduplicates and extracts accounting fields from **100+ invoices/month**
- Replaced a paper notebook and Excel workflow with a Telegram operations platform — mechanics record jobs with DVLA lookups, track customers and vehicles, calculate profit, and export monthly accounts
- Eliminated manual invoicing by integrating FreeAgent to auto-generate and send invoices on job completion
- Automated supplier invoice intake — a Gmail Apps Script watches categorised email folders and routes attachments into the extraction pipeline, with failures surfaced via Telegram for manual review

Standard Life

Jul 2024 – Aug 2024

Product Research Intern

Edinburgh, Scotland

- Analyzed survey data from 100+ participants to inform question design for a parent-facing app feature — designed the instruments, ran the analysis in Python and Excel, and synthesized findings into actionable UX recommendations
- Devised a bucketing scheme to quantify open-ended responses and built visualizations without direction — delivered findings in a presentation to company employees and end users

TECHNICAL PROJECTS

Fira | *FastAPI, PydanticAI, Playwright, Solana*

Feb 2026

HackEurope Dublin (22 hrs, team of 4) — freelance contract platform with autonomous AI agent milestone verification

- Architected and built a multi-agent verification pipeline — parallel agents inspect GitHub milestones and navigate live deployments via Playwright, with a judge model reviewing evidence before any trust decision
- Wired the verification result to trigger real on-chain escrow release on Solana — each transfer carries an on-chain receipt linking payment to the verified milestone, **end-to-end in 22 hours**

Zenparse | *Node.js, TypeScript, Vercel AI SDK, Zod*

Dec 2025

Configurable document extraction framework with multi-pass LLM pipelines and multi-provider support

- Deployed in **production** processing **500+ invoices/year** at over **90%** accuracy — YAML-configured multi-pass pipeline generating Zod schemas at runtime from field definitions, with early-pass output injected as context into later passes
- Handles PDF, image, CSV, and XLSX inputs with multi-provider support — per-item error isolation keeps partial batches running even when individual documents fail

GradeIQ | *Next.js, FastAPI, LiteLLM, Supabase*

Oct 2025

3rd place at Teachathon (2-week sprint) — AI-powered grading platform automating academic assessment

- Shipped an AI grading platform (team of 2) that grades student PDF submissions against instructor rubrics and returns per-criterion feedback with evidence quotes
- Automated mark scheme generation from uploaded exam PDFs — the LLM extracts question types, mark allocations, and rubric criteria, with the backend auto-computing the passing threshold and pre-filling the assignment form

Samantha OS Assistant | *Python, OpenAI API, Docker*

Oct 2025

1st place at OpenEuler Challenge — natural language CLI assistant for Linux system operations

- Built a natural language CLI assistant that translates plain-English requests to Linux commands, gating destructive operations on confirmation
- Architected a typed-action dispatch loop — the LLM responds only in structured JSON (execute, analyze, or tool call) — with a self-correction system that resets gracefully on stuck loops rather than retrying indefinitely

TECHNICAL SKILLS

Languages: Python, TypeScript, JavaScript, Java, C++, Bash, SQL, HTML, CSS

Frameworks & Libraries: Node.js, React, Next.js, SvelteKit, FastAPI, Drizzle ORM, Tailwind CSS, Vercel AI SDK, Zod, Playwright, LiteLLM, PydanticAI, Vitest

Infrastructure & Tools: PostgreSQL, Redis, Supabase, Docker, Cloudflare, Git, Linux, GitHub Actions (CI/CD)

AI & Automation: agent design, multi-agent systems, structured output, prompt engineering, multi-provider orchestration, LLM pipelines