

Viktor Sharha

Computer Science Student — AI & Product Engineering

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EDUCATION

University of Edinburgh

BEng Computer Science — First Year: 85% Average (A Grade)

Edinburgh, Scotland

Expected Graduation: May 2028

- **Exceptional Performance:** Introduction to Computation (100% - A1), Introduction to Linear Algebra (93% - A1)
- **Relevant Coursework:** Object-Oriented Programming, Algorithms & Data Structures, Cognitive Science, Calculus

EXPERIENCE

VDrive Edinburgh

Technical Operations Lead

June 2025 – Present

Edinburgh, Scotland

- Co-founded and manage technology operations for automotive business, handling 50+ monthly service appointments
- Built Python automation system that processes 500+ invoices/receipts annually
- Developing "Zenparse" - commercializing the internal tool into a B2B SaaS product for small business accounting automation

AWARDS & ACHIEVEMENTS

First Place, OpenEuler Challenge

Won university-wide competition among 10 teams with Samantha OS Assistant

October 2025

Edinburgh, Scotland

Third Place, Teachathon

Awarded for innovative educational technology solution, GradeIQ

October 2025

Edinburgh, Scotland

TECHNICAL PROJECTS

Optiver Trading Challenge | Python, BERT, NLP, Algorithmic Trading

November 2025

Collaborative trading algorithm finishing 2nd on leaderboard at Hacktheburgh hackathon

- Researched and implemented sentiment analysis component for algorithmic trading bot in team of 6 during 24-hour competition
- Evaluated multiple approaches including LLM-based and BERT models for financial sentiment scoring on news data

GradeIQ | Next.js, React (TanStack Query), FastAPI, Supabase, shadcn/ui

October 2025 (2-Week Sprint)

AI-powered grading platform co-developed (team of 2) to automate academic assessment.

- Engineered a responsive Next.js frontend using TanStack Query to manage complex server state, featuring real-time status polling for background grading jobs and optimistic updates
- Built the core UI with shadcn/ui, React Hook Form, react-pdf, and TanStack Table to provide a type-safe, dynamic interface for rubric creation and bulk submission management
- Developed a FastAPI backend using 'BackgroundTasks' for non-blocking AI grading; secured the full-stack app with Supabase JWT and used Claude/Gemini to grade student submissions

Samantha OS Assistant | Python, OpenAI API, Linux System Programming

October 2025

Award-winning CLI assistant converting natural language to system commands

- Won first place in university OpenEuler Challenge among 10 competing teams with intelligent command-line assistant
- Built conversational interface that chains complex operations through natural language, handling file management, system diagnostics, and web research with safety confirmations for destructive actions
- Designed extensible agent framework with 5+ specialized tools including API integrations, featuring automatic retry mechanisms

Zenparse (AI Expense Pipeline) | Python, OCR, Multiple AI APIs, YAML

July 2025 – Present

Automated bookkeeping system processing an annual rate of 500+ documents for VDrive

- Achieved 95% time reduction (5 hours to 15 minutes monthly) by engineering production pipeline that extracts structured data from invoices and receipts using OCR and AI
- Delivered 98% accuracy on expense categorization through configurable multi-pass processing with validation rules
- Commercializing as B2B SaaS product targeting small businesses with similar accounting automation needs

TECHNICAL SKILLS

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

Frameworks & Libraries: React, Next.js, FastAPI, Tailwind CSS, Redux, Supabase, JWT/Auth, BERT, NLP Libraries

Tools & Platforms: Git, Linux, Docker, REST APIs, CI/CD, Cloudflare, OpenAI/Anthropic APIs

Currently Learning: AWS, System Design, Advanced Algorithms (for technical interviews)