

# Viktor Sharha

Computer Science Student — AI & Product Engineering

[vsharha07@gmail.com](mailto:vsharha07@gmail.com) | [linkedin.com/in/vsharha](https://linkedin.com/in/vsharha) | [github.com/vsharha](https://github.com/vsharha) | [viktorsharha.com](https://viktorsharha.com)

## EDUCATION

### University of Edinburgh

Edinburgh, Scotland

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

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

June 2025 – Present

Technical Operations Lead

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

October 2025

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

Edinburgh, Scotland

### Third Place, Teachathon

October 2025

Awarded for innovative educational technology solution, GradeIQ

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 4 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

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**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)