

# Viktor Sharha

Computer Science Student — AI & Product Engineering

+44 7771 432 765 | [vsharha07@gmail.com](mailto:vsharha07@gmail.com) | [linkedin.com/in/vsharha](https://linkedin.com/in/vsharha) | [github.com/vsharha](https://github.com/vsharha) | [viktorscharcha.com](https://viktorscharcha.com)

## EDUCATION

<b>University of Edinburgh</b> <i>BEng Computer Science — First Year: 85% Average (A Grade)</i>	Edinburgh, Scotland Expected Graduation: May 2028
<ul style="list-style-type: none"><li><b>Exceptional Performance:</b> Introduction to Computation (100% - A1), Introduction to Linear Algebra (93% - A1)</li><li><b>Relevant Coursework:</b> Object-Oriented Programming, Algorithms &amp; Data Structures, Cognitive Science, Calculus</li></ul>	

## EXPERIENCE

<b>VDrive Edinburgh</b> <i>Technical Operations Lead</i>	June 2025 – Present <i>Edinburgh, Scotland</i>
<ul style="list-style-type: none"><li>Co-founded and manage technology operations for automotive business, handling 50+ monthly service appointments</li><li>Built Python automation system that processes 500+ invoices/receipts annually</li><li>Developing "Zenparse" - commercializing the internal tool into a B2B SaaS product for small business accounting automation</li></ul>	

## AWARDS & ACHIEVEMENTS

<b>First Place, OpenEuler Challenge</b> <i>Won university-wide competition among 10 teams with Samantha OS Assistant</i>	October 2025 <i>Edinburgh, Scotland</i>
<b>Third Place, Teachathon</b> <i>Awarded for innovative educational technology solution, GradeIQ</i>	October 2025 <i>Edinburgh, Scotland</i>

## TECHNICAL PROJECTS

<b>Optiver Trading Challenge</b>   <i>Python, BERT, NLP, Algorithmic Trading</i>	November 2025
<i>Collaborative trading algorithm finishing 2nd on leaderboard at Hacktheburgh hackathon</i>	
<ul style="list-style-type: none"><li>Researched and implemented sentiment analysis component for algorithmic trading bot in team of 6 during 24-hour competition</li><li>Evaluated multiple approaches including LLM-based and BERT models for financial sentiment scoring on news data</li></ul>	
<b>GradeIQ</b>   <i>Next.js, React (TanStack Query), FastAPI, Supabase, shadcn/ui</i>	October 2025 (2-Week Sprint)
<i>AI-powered grading platform co-developed (team of 2) to automate academic assessment.</i>	
<ul style="list-style-type: none"><li>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</li><li>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</li><li>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</li></ul>	
<b>Samantha OS Assistant</b>   <i>Python, OpenAI API, Linux System Programming</i>	October 2025
<i>Award-winning CLI assistant converting natural language to system commands</i>	
<ul style="list-style-type: none"><li>Won first place in university OpenEuler Challenge among 10 competing teams with intelligent command-line assistant</li><li>Built conversational interface that chains complex operations through natural language, handling file management, system diagnostics, and web research with safety confirmations for destructive actions</li><li>Designed extensible agent framework with 5+ specialized tools including API integrations, featuring automatic retry mechanisms</li></ul>	
<b>Zenparse (AI Expense Pipeline)</b>   <i>Python, OCR, Multiple AI APIs, YAML</i>	July 2025 – Present
<i>Automated bookkeeping system processing an annual rate of 500+ documents for VDrive</i>	
<ul style="list-style-type: none"><li>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</li><li>Delivered 98% accuracy on expense categorization through configurable multi-pass processing with validation rules</li><li>Commercializing as B2B SaaS product targeting small businesses with similar accounting automation needs</li></ul>	

## TECHNICAL SKILLS

<b>Languages:</b> Python, JavaScript/TypeScript, Java, C++, SQL, Bash, HTML/CSS
<b>Frameworks &amp; Libraries:</b> React, Next.js, FastAPI, Tailwind CSS, Redux, Supabase, JWT/Auth, BERT, NLP Libraries
<b>Tools &amp; Platforms:</b> Git, Linux, Docker, REST APIs, CI/CD, Cloudflare, OpenAI/Anthropic APIs
<b>Currently Learning:</b> AWS, System Design, Advanced Algorithms (for technical interviews)