Viktor Sharha

Computer Science Student — AI & Product Engineering

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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

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)