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
Co-Founder & Operations   *Edinburgh, Scotland*
- Co-founded automotive service business, scaling to 50+ monthly appointments while managing all technology operations and digital infrastructure
- Built and deployed "Zenparse" - AI-powered document processing system handling 500+ invoices/receipts annually with 98% accuracy, reducing monthly bookkeeping time by 95% (5 hours to 15 minutes)
- Commercializing Zenparse as B2B SaaS product targeting small businesses with similar accounting automation needs

AWARDS & ACHIEVEMENTS

First Place, OpenEuler Challenge   October 2025
Won competitive university-wide hackathon with Samantha OS Assistant   *Edinburgh, Scotland*

Third Place, Teachathon   October 2025
Placed 3rd in educational technology competition with GradeIQ, an AI-powered grading platform   *Edinburgh, Scotland*

TECHNICAL PROJECTS

Optiver Trading Challenge | *Python, BERT, NLP, Algorithmic Trading*   November 2025
2nd on leaderboard at Hacktheburgh algorithmic trading competition (20+ teams)
- Led sentiment analysis component for trading bot in 24-hour competition (team of 6), helping secure 2nd place finish
- Implemented BERT-based model for real-time financial sentiment scoring; algorithm held 1st place for majority of competition

World on Fire | *Next.js, React, FastAPI, Supabase, Leaflet*   November 2025
Real-time global news heatmap visualizing breaking news across 100+ cities (24 hour hackathon project)
- Built interactive news visualization platform with real-time updates (30-second intervals) and sentiment-based heat mapping using Leaflet and React
- Developed automated news aggregation pipeline with 10-minute RSS feed ingestion, VADER sentiment analysis, and geocoding with database caching for 100+ global cities
- Architected full-stack application with FastAPI backend and Supabase PostgreSQL for article deduplication and efficient aggregation queries

GradeIQ | *Next.js, React, FastAPI, Supabase, Claude/Gemini AI*   October 2025
AI-powered grading platform automating academic assessment - 3rd place at Teachathon (2-week sprint)
- Co-developed full-stack platform (team of 2) enabling instructors to create custom rubrics and grade student submissions using AI, with real-time status updates for background processing jobs
- Built responsive interface with PDF viewing, bulk submission management, and dynamic rubric creation using React and shadcn/ui component library
- Implemented secure FastAPI backend with non-blocking AI grading via Claude/Gemini APIs and JWT authentication through Supabase

Samantha OS Assistant | *Python, OpenAI API, Linux System Programming*   October 2025
1st place at OpenEuler Challenge - natural language CLI assistant for Linux system operations
- Built conversational command-line interface converting natural language to system commands, handling file management, diagnostics, and web research with safety confirmations for destructive operations
- Designed extensible agent framework with 5+ specialized tools including API integrations and automatic retry mechanisms for robust operation chaining

TECHNICAL SKILLS

Languages: Python, JavaScript/TypeScript, Go, Java, C++, SQL, Bash
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
Web Technologies: HTML5, CSS3, Responsive Design, REST, WebSockets
Currently Learning: AWS, System Design, Machine Learning, Advanced Algorithms (for technical interviews)