

Viktor Sharha

Computer Science Student — AI & Product Engineering

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EDUCATION

University of Edinburgh <i>BEng Computer Science — First Year: 85% Average (A Grade)</i>	Edinburgh, Scotland <i>Expected Graduation: May 2028</i>
<ul style="list-style-type: none">• 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 <i>Co-Founder & Technical Operations Lead</i>	June 2025 – Present <i>Edinburgh, Scotland</i>
<ul style="list-style-type: none">• 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• Manage customer-facing booking platform and oversee technical infrastructure supporting daily business operations	

AWARDS & ACHIEVEMENTS

First Place, OpenEuler Challenge <i>Won competitive university-wide hackathon with Samantha OS Assistant</i>	October 2025 <i>Edinburgh, Scotland</i>
Third Place, Teachathon <i>Placed 3rd in educational technology competition with GradeIQ, an AI-powered grading platform</i>	October 2025 <i>Edinburgh, Scotland</i>

TECHNICAL PROJECTS

Optiver Trading Challenge <i>Python, BERT, NLP, Algorithmic Trading</i> <i>2nd on leaderboard at Hacktheburgh algorithmic trading competition (20+ teams)</i>	November 2025
<ul style="list-style-type: none">• 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 <i>Next.js, React, FastAPI, Supabase, Leaflet</i> <i>Real-time global news heatmap visualizing breaking news across 100+ cities (24 hour hackathon project)</i>	November 2025
<ul style="list-style-type: none">• 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 <i>Next.js, React, FastAPI, Supabase, Claude/Gemini AI</i> <i>AI-powered grading platform automating academic assessment - 3rd place at Teachathon (2-week sprint)</i>	October 2025
<ul style="list-style-type: none">• 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 <i>Python, OpenAI API, Linux System Programming</i> <i>1st place at OpenEuler Challenge - natural language CLI assistant for Linux system operations</i>	October 2025
<ul style="list-style-type: none">• 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)