STAN OSIPENKO

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EDUCATION

B.S. in Computer Science • Carnegie Mellon University (Pittsburgh, USA) Expected December 2025
- Minors in Software Engineering and Decision Science, 3.5 GPA
- Member of Computer Club and MMA Club

High School • Latymer Upper School (London, UK) September 2015 – May 2022
- One of 5 students out of 285,000 to take 6 A-Levels (Maths A*, Computing A*, Statistics A*, Further Maths A, Physics A, Business A)
- SAT 1600/1600, SAT Mathematics II 800/800

PROFESSIONAL EXPERIENCE

Software Engineer • Electric Twin (London, UK) May 2025 – Present
- Rebuilt early-stage prototype into flagship product, designing full-stack architecture and enterprise-grade data access portal
- Migrated all client data (B2C and enterprise data) to PostgreSQL database with zero data loss, with 10x faster data retrieval for users
- Transformed hundreds of hours of focus group data into thousands of synthetic personas using LLMs, revealing new dimensions of human behaviour and decision-making

Algorithm Developer • ASML (HQ, Netherlands) January – June 2024
- Created C/C++ algorithms from scratch (4,000 lines) to detect faulty parts in lithography machines
- Improved data throughput by a factor of 10 compared to previous intern's work
- Employed test-driven design with manager to ensure correctness
- Designed and implemented exhaustive test-suite and presented software to 30+ electrical engineers
- Programming CLI interface with tutorials for non-programmers and stakeholders, including 25+ command line examples

Software Engineer Intern • Capula Investment Management LLP (London, UK) June 2023
- Conducted RabbitMQ benchmarking for 100+ traders
- Created new backend server tutorials and documentation for future developers
- Worked remotely with Hong Kong based developers to test their software suite

TEACHING AND LEADERSHIP

- Lecturing to 200+ students as a TA for Carnegie Mellon course **07-131: Great Practical Ideas in CS** Fall 2023 and 2024
- Mentor for **University of Cambridge** PiWars competition March 2021
- Became first and only non-university student in **Imperial College London**'s teaching group September 2018
- Designed and taught Python courses for free to children of key/essential workers during lockdown June 2020 – October 2020
- Led summer workshops (200+ hours): Python for beginners, robotics, P5js creative programming January 2021 – May 2023

PROJECTS

AI for Interior Design • Interiors With Art Ltd (London, UK) December 2023 – Present
- Partnering with leading interior design company to directly address workflow pain points
- Building an AI search engine for interior designers, reducing mood board creation time 4x. Regular engagement with team to refine search engine based on real-world feedback, enabling more intuitive and efficient design processes.
- Python/Web 8,000+ lines. Database 300,000+ products. HuggingFace, Flask, Amazon Web Services (AWS), Sagemaker

HackCMU • Winner of the Hudson River Trading (HRT) Prize for Best Use of Data Hack September 2022
- Created a real-time heatmap capturing student sentiment across the university campus as part of CMU hackathon
- Developed a B2B monetization model: selling users' sentiment and text pairs for training data purposes

Open Source Project • Aseprite Loader December 2020 – March 2022
- Created first open source ".ase" file loader library for graphics programming and Aseprite workflow (50+ Github stars)
- Integrated tool into custom game engine for published video game (C++ 7,000 lines)

SELECTED ACHIEVEMENTS AND ACTIVITIES

- **CFA Institute Investment Foundations Certificate** July 2024
- Completed **4x4x48 Challenge** (Ran 48 miles) May 2024
- CoderPad Online Coding Competitions, top 500/300,000 2021 – 2022

SKILLS AND INTERESTS

- **Technical:** C/C++, Python, Javascript, Lua, Jai, SQL, Git, Bash, LaTeX, Vim, Pytorch, Pandas, Next.js/Vercel, PostgreSQL, GCP
- **Language:** Native English, Fluent Russian, Conversant Ukrainian, Conversant Mandarin
- **Other:** Public speaking, debate, interpersonal communication (explored these topics in a graduate course at CMU)