

# STAN OSIPENKO

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## EDUCATION

### B.S. in Computer Science • Carnegie Mellon University

Expected December 2025

- Minors in Software Engineering and Decision Science, 3.5 GPA
- Member of Computer Club and MMA Club

## PROFESSIONAL EXPERIENCE

### 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
- Programmed CLI interface with manual page; left folder containing 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

### Analyst • Flashpoint Venture Capital (London, UK)

June – August 2020

- Wrote SQL scripts to analyze 10,000+ technology companies from Crunchbase
- Conducted potential target screening for gaming and last-mile spaces, reviewing more than 100 companies
- Gained insights into the VC industry and B/C round financing

## PROJECTS

### Startup • AI for Interior Design

December 2023 – Present

- Co-founder of pre-seed stage company
- Building an AI search engine for interior designers, reducing mood board creation time 4x
- Python/Web 4,000+ 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

### Published Video Game • Island Citadel

November 2020 – February 2024

- Implemented program with no external libraries (8,000 lines C++): graphics engine, shaders, map editor, art, music
- Rewrote entire codebase into Jonathan Blow's closed beta programming language Jai (7,000 lines)
- 250+ copies sold

### Open Source Project • Aseprite Loader

December 2020 – March 2022

- Created first open source .ase loader library
- 50+ GitHub stars. Used in 5+ game engines
- Interpreted and developed insights into niche open source file format
- Developed test suite to verify correctness before pushing changes to public

## SELECTED ACHIEVEMENTS AND ACTIVITIES

### CFA Institute Investment Foundations Certificate

July 2024

### Ran Amsterdam Marathon with no training

May 2024

### CoderPad Online Coding Competitions, top 500/300,000

2021 – 2022

## SKILLS

- **Technical:** C/C++, Python, Javascript, Lua, Jai, SQL, Git, Bash, LaTeX, Vim, Pytorch, Pandas
- **Language:** Native English, Fluent Russian, Conversant Ukrainian, Conversant Mandarin
- **Other:** Public speaking, debate

## TEACHING EXPERIENCE

### 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