Artyom Simitian

simitianart@gmail.com • (747) 242-9229 • linkedin.com/in/artyom-simitian

INTRODUCTION

Motivated Computer Science student with a strong foundation in programming, data analysis, and problem-solving. Skilled in applying technical knowledge to develop efficient solutions and committed to accuracy, innovation, and continuous learning in dynamic environments.

EDUCATION

California State University Northridge | Los Angeles, CA **Expected 2027**

B.S. in Computer Science, Minor in Mathematics

Relevant Courses: Advanced Data Structures and Algorithms; Object-Oriented Programming; Discrete Structures; Computer Architecture and Organization; Networks & Security; Automata Languages and Computation

TECHNICAL SKILLS

Languages: Python, C++, TypeScript, JavaScript, Java, Dart
Technologies: React, Node.js, Git, Firebase, Firestore, Flutter, Docker, Redis, PyTorch, Pytest, HTML, CSS

EXPERIENCE

LA CHESS TUTORS | Los Angeles, CA **Apr. 2023 - Nov. 2024**

Online Chess Tutor

- Founded non-profit chess **tutoring program** to students worldwide.
- **Managed overall curriculum**, coordinated overall path of the program.
- HSEL National Chess Champion

PROJECTS

Portfolio Website (artyomsimitian.com) | Personal Project **May. 2025**

- Developed and deployed a portfolio website with project pages, concise write-ups, and repo/demo links.
- Focused on fast load times, **responsive layout**, and clean UX to support internship/job applications.
- Implemented a consistent component/section structure so new projects can be added quickly without redesigning pages.
- Optimized accessibility and usability (**clear navigation**, readable typography, **mobile-friendly layout**) to improve recruiter scan-ability.

AI-Enhanced Network Security | Course/Independent Work **Dec. 2025**

- Applied artificial intelligence techniques for **traffic analysis** to support data driven detection and automated threat reports.
- Built a structured database **csv** of network traffic to enable reliable analysis and repeatable testing.
- Implemented a preprocessing pipeline (cleaning, normalization, feature extraction) to improve signal quality and **model prompt consistency**.
- Evaluated results using common classification metrics (precision/recall, confusion matrix) and iterated on features to **reduce false positives**.

Sorting Visualizer (React + TypeScript) (sortingvisualizer.com) | Personal Project **Feb. 2026**

- Built an interactive sorting visualizer in **React + TypeScript** to demonstrate algorithm behavior step-by-step (Bubble, Merge, Quick) with real-time controls for **array size**, **play/pause**, and **animation speed**.
- Implemented a **generator-based instrumentation layer** that emits discrete operations (compare/swap/overwrite/mark-sorted) to make algorithm execution replayable and easy to debug.
- Reduced main-thread work by **coalescing high-frequency compare events** and applying active highlights **once per animation frame**, improving UI consistency at sub-10ms speeds.