

Shahar Ankonina

(408) 507-7745 | Mountain View, CA | Shahar.Ankonina05@gmail.com | github.com/AnkoninaShahar | linkedin.com/in/shahar-ankonina

Computer engineering student and full-stack builder who likes understanding systems from the ground up - from custom transformer engines to production tools used by real clients. Seeking software engineering roles where I can ship real, high-quality software and take ownership fast.

EDUCATION

De Anza College - A.S., Computer Engineering | Expected 2027 | GPA: 4.0/4.0 | Dean's List

Relevant Coursework: Data Structures & Algorithms, Intermediate C++, x86 Assembly, Discrete Math, Linear Algebra, Differential Equations

EXPERIENCE

PuzzlePiece - *Software Engineering / QA Intern* | January 2026

- Authored the full Test Strategy & QA Plan for a production React Native / Node.js / PostgreSQL application, defining testing methodology across the stack.
- Built a Requirements Traceability Matrix mapping 100+ requirements to individual test cases, ensuring complete coverage before implementation.
- Led risk assessment across 15+ features, prioritizing Critical/High-risk areas (security, matching, payments) with targeted mitigation plans.
- Specified security and load-testing plans covering JWT handling, HTTPS enforcement, and 500-1,000 concurrent-user performance targets.

PROJECTS

CGPT++ - *C++17, no external libraries*

- Built a decoder-only transformer from scratch, including a custom N-dimensional tensor engine and a computational graph driving hand-derived backpropagation through attention, layer norm, and loss layers.
- Implemented a full training pipeline (AdamW optimizer, checkpointing) and autoregressive character-level text generation, demonstrated on Shakespeare - no PyTorch, TensorFlow, or BLAS.

GitHub: github.com/AnkoninaShahar/CGPT

Sales Tracker (Sleek & Retro) - *React, Vite, Framer Motion, C++/SFML*

- Shipped a real production tool for a local theater company, with a React/Vite web version and an earlier native C++/SFML desktop version of the same product.
- Built a modular component architecture with hooks-driven state (useRef/useEffect) for real-time revenue tracking, plus a custom price-input parser with strict currency formatting.

GitHub: github.com/AnkoninaShahar/Sales-Tracker-Sleek | github.com/AnkoninaShahar/Sales-Tracker-Retro

QAPINN Thermo-Optic - *PyTorch, PennyLane (quantum computing research)*

- Co-developed a hybrid quantum-classical research framework with a research partner, leading quantum circuit design (PennyLane) and PDE-based physics modeling for heat diffusion and thermo-optic phase shifts in silicon photonic devices.
- Jointly built the PyTorch neural network implementation and combined it with the quantum circuits in a single training pipeline, benchmarking classical vs. quantum-augmented modeling accuracy.

GitHub: github.com/AnkoninaShahar/qapinn-thermo-optic

LEADERSHIP & ACTIVITIES

- **BBYO - Ramon AZA #195, Chapter President / VP / Treasurer (Aug 2019 - Jul 2024):** Progressed through the full executive board over 5 years, running parliamentary-procedure meetings, managing chapter budget/fundraising, and administering official elections and leadership handoffs.
- **IEEE - Technical Lead, Circuits & Systems:** Leading a term-long analog synthesizer hardware build project for the chapter, starting next term.

Also involved in: ETI Lab Assistant; Engineering Club; Robotics Club; Data Science & AI Club.

SKILLS

Languages: C++, Python, Java, JavaScript, TypeScript, C#, x86 Assembly

Frameworks: React, Node.js, PyTorch

Tools: Git/GitHub, VS Code, PostgreSQL, REST APIs, JWT/Auth

Concepts: Data Structures & Algorithms, OOP, System Architecture, Testing & QA