Edward Kim

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EDUCATION

University of California, Berkeley

Computer Science   *Graduated Dec. 2025*

- Completed degree in 2.5 years (original class of 2027). Relevant coursework: Structure and Interpretation of Computer Programs, Data Structures, Foundations of Data Science, Principles and Techniques of Data Science, Discrete Mathematics and Probability Theory, Machine Structures, Software Engineering, Computer Security.

EXPERIENCE

Surge AI   Feb. 2023 – Sep. 2024

Software Engineer (Contract)

- Engineered and optimized code-centric training and evaluation artifacts in Python, Java, C++, and React for large language model workflows spanning code generation, debugging, and multi-step reasoning, improving token efficiency by 40%.
- Performed rubric-driven analysis of model outputs across complex programming prompts, surfacing failure modes in correctness, edge-case handling, instruction adherence, and computational efficiency to strengthen data quality.
- Developed structured prompt-response specifications, benchmark cases, and technical evaluation criteria for algorithmic problem solving, web infrastructure, and data processing scenarios.

DUX Technology Consulting   Jul. 2024 – Present

Full-Stack Software Engineer (Part-Time)

- Contributed to full-stack engineering across frontend and backend systems, building features, debugging issues, and developing maintainable solutions using multiple languages and tools.
- Developed and refined application functionality across user-facing interfaces, backend logic, and supporting workflows with an emphasis on clean implementation, reliability, and maintainability.
- Supported broader software engineering work through testing, troubleshooting, feature iteration, and technical problem solving across different parts of the stack.

UNI4World   Aug. 2018 – Present

President & Founder

- Lead nonprofit strategy, fundraising, partnerships, and day-to-day operations.
- Launched the Sending Hope Project, delivering 100+ laptops to students in Africa and helping establish the first multimedia classrooms at TVET High School in Rwanda.

PROJECTS

RISC-V CPU | *Logisim, RISC-V*

- Implemented a single-cycle RISC-V processor in Logisim, integrating datapath, control logic, register file, ALU, branching, and memory operations to execute core integer instructions end-to-end.

ActionMaps | *Ruby on Rails, JavaScript, Google Civic Information API*

- Enhanced a full-stack civic engagement platform on a 3-person Agile team, implementing Google Civic Information API integrations, backend data flows, and interactive JavaScript map features for location-aware policy and representative lookup.

Decomposed-NS | *Python, LLMs, SMT Solvers*

- Developed a modular neuro-symbolic reasoning framework on a 3-person team, decomposing complex tasks into LLM-guided stages with SMT-based verification, iterative constraint generation, and feedback refinement to reach 98% logical reasoning accuracy.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C++, SQL, R, HTML/CSS
Frameworks & Tools: React, Ruby on Rails, Git, Logisim, Large Language Models, SMT Solvers
Areas: Machine Learning, AI, Web Infrastructure, Data Processing, Computer Architecture

AWARDS & RECOGNITION

National Merit Finalist (2023)   **AIME Qualifier** (2022)   **USACO Gold** (2020)