Eli Young

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Experience

AlgoArena, LLC Remote
Co-Founder & CEO. Next.js, TypeScript, Firebase, AWS Bedrock, Stripe *Sept. 2025 to Present*

- Built and run a coding platform with about 1,200 registered users: 9,400+ problems judged in 17 languages, live 1v1 matches, classroom quizzes and graded assignments, and a prompt-to-app builder.
- Built an AI coding assessment from scratch: our own agent (ask, plan and code modes, file edits, web search, streamed responses) beside real Claude Code and Codex sessions in sandboxed workspaces, with a full replay of each session for reviewers.
- Routed every AI call across Claude, GPT and Kimi models on AWS Bedrock, with timed health checks that move traffic off a slow provider and per-session spending caps that keep each assessment within budget.
- Wrote most of the code by running several AI coding agents in parallel, and built the automated checks that run every reference solution against every test in the problem bank.
- Made our first institutional sale: Bryn Mawr College paid for 11 student seats through a campus grant to pilot the platform in a course. Ran AI coding hackathons at the University of Rhode Island and Haverford, and co-wrote three peer-reviewed publications from the work.

Lock In Remote
Founder and sole engineer. React Native, TypeScript, iOS and Android *May 2024 to Present*

- Designed, built and shipped a group focus and screen-time app to the App Store and Google Play, with about 1,000 accounts, in-app purchases, rewarded ads, friends and shared focus sessions.

myOrbit (Calibrr LLC) Remote
Contract Software Engineer. Swift, Node.js, AWS Lambda, SES, EC2 *June 2025 to Present*

- Cut client API calls about 75% by fixing rate-limit handling, built notification and moderation features on AWS, and submitted the iOS app to the App Store.

Center for Digital Agriculture, University of Illinois Urbana-Champaign Urbana, IL
NSF REU Fellow, lab of Prof. Mohammed Kamruzzaman *May to Aug. 2025*

- Predicted egg viability and chick sex from daily hyperspectral images, reaching 93.8% day-four viability accuracy with all fitting kept inside validation folds. Invited to write the manuscript as first author.

Swarthmore College Swarthmore, PA
Applied Machine Learning Researcher, advised by Prof. Gabriel Hope *Sept. 2025 to May 2026*

- Classified insect feeding behavior from electrical recordings for a USDA project, raising mosquito macro-F1 from about 0.43 to above 0.54.

Torchman IP LLC Remote
Software Engineering Intern *Sept. 2024 to Apr. 2025*

- Built a pipeline that reads patent office actions with OCR and an LLM, packaged as a Windows app the firm's legal staff run themselves.

Education

Swarthmore College Swarthmore, PA
B.A. in Computer Science. Semester abroad at DIS Copenhagen, spring 2025 *Aug. 2022 to May 2026*

Publications

- **Young, E.**, Luu, A., & Wehar, M. A Competency Framework for Assessing AI-Assisted Programming Work. *SIGCSE Virtual 2026*, poster.
- Luu, A., **Young, E.**, & Wehar, M. Teaching Vibecoding: An Open Curriculum for AI-Assisted Software Development. *SIGCSE Virtual 2026*, poster.
- Luu, A., **Young, E.**, & Wehar, M. Supporting Active Learning in Computer Science with Live, Gamified Classroom Quizzes. *CCSC Southeastern 2026*.

Awards and Skills

- **Awards:** 1517 Fund Medici Project Grant (2026). NSF REU Fellowship (2025).
- **Languages:** TypeScript, JavaScript, Python, Swift, C++, Java, SQL.
- **Tools:** React, Next.js, React Native, Node.js, Firebase and Firestore, AWS (Bedrock, Lambda, SES, EC2), Stripe, PyTorch, scikit-learn.
- **AI tools:** Claude Code, Codex, Cursor, daily, often several agents at once.