

Andrew Liu

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EXPERIENCE

Blueberry

Aug. 2026 – Present

Co-Founder & Product Lead

College Park, MD

- Turned a flashcard tool built for classmates into an AI-assisted organic chemistry learning platform; lead product direction and learning-science design for a five-person team and authored the 19-slide investor deck.
- Architected a React 19 / TypeScript monorepo (Vite, Tailwind v4) split into chem-core, curriculum, validators, and interaction packages, backed by Supabase for Google OAuth and Postgres with row-level security.
- Shipped a custom SVG molecule renderer, a curved-arrow mechanism trainer, and in-browser grading via RDKit.js on a bond-electron matrix model that structurally prevents authoring errors.

Minnodi LLC

June – Aug. 2025

AI Intern

Frederick, MD

- Used AI-assisted, agentic workflows to engineer documentation and onboarding infrastructure for Browser Use, an open-source AI agent platform with 2,000+ users and 200+ contributors globally.
- Authored technical guides adopted by 200+ contributors and resolved defects across 20+ real-world web environments, verifying AI-suggested fixes against live agent runs before shipping.
- Worked asynchronously with a distributed international team across time zones via Slack and GitHub with minimal direct oversight.

Education One

June 2025 – Jan. 2026

Mathematics & Sciences (Anatomy, Biology, Genetics, Chemistry, Physics) Tutor

Darnestown, MD

- Delivered structured STEM instruction to several dozen students; SAT students improved 100–300 points through data-driven practice regimens.
- Built automated Google Sheets/Apps Script systems for grading, duplicate detection, and billing-error alerts, improving center profitability by ~30% and preventing \$2,000+ in losses.

PROJECTS

Second Brain: Personal Operating System | *React, TypeScript, Supabase, Postgres RLS*

2026

- Consolidated five tools (notes, AI chat, nutrition and workout logging, goals intake, project dashboard) into one app: a public static shell on GitHub Pages with all private data behind Google sign-in and row-level security.
- Built voice-first logging that turns spoken meals and workouts into structured entries via AI macro estimation plus a cached known-foods lookup.

Chemistry Explainer Animation Pipeline | *Python, cairosvg, ffmpeg*

2026

- Built a pipeline that renders SVG reaction frames programmatically and composites them into narrated explainer videos, replacing hand-animated slides.
- Authored the specification for interactive chemistry figures in a professor's online textbook.

SKILLS

Languages: Python, TypeScript, JavaScript, Kotlin, Java, SQL

Frameworks & Tools: React, Vite, Tailwind, Node/Express, Supabase, PostgreSQL, Firebase, MongoDB, NumPy, Google Apps Script, Git, GitHub Actions

AI Engineering: Agentic coding workflows, LLM API integration (Claude, Gemini), prompt and spec design, evaluating AI output against live runs

Certifications: AI Fluency and Claude 101 (Anthropic); Career Essentials in Generative AI (Microsoft & LinkedIn)

EDUCATION

University of Maryland, College Park

Expected May 2027

B.S. in Computer Science; Pre-Dental Track

College Park, MD

- GPA: 3.3 | Coursework: Machine Learning, Computational Genomics, Algorithms, Data Science, Programming Languages, Computer Systems, Web Development

LEADERSHIP

KCM Focus Family

Jan. 2025 – Present

Focus Family Leader & Point of Contact

College Park, MD

- Primary communication link between advisors, officers, and leaders; mentor 25+ students through structured discussions and activities.
- Automated a weekly digest email in Google Apps Script that parses a master calendar spreadsheet and summarizes shared Drive folders through the Gemini API, replacing manual roundups.
- Wrote the procedure guides that let other leaders run recurring events unaided, standardizing handoff across turnover.