AJ MATHESON-LIEBER

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EDUCATION
Claremont McKenna College, Claremont, CA											**May 2027**
Bachelor of Arts
- Mathematics and Philosophy Dual Major with a sequence in Computer Science
- GPA: 3.96/4.00
- Coursework: Calculus II/III, Linear Algebra, Discrete Math, Principles of Computer Science, Data Structures & Program Development, Neural Networks & Deep Learning, and Computer Graphics

EXPERIENCE
Culldron AI – San Francisco, CA											**Jun 2025 – Aug 2025**
Full Stack SWE Intern
- Developed and maintained React Native testing suite for entire front-end codebase in development and production
- Built and integrated a map-based content display and interface within React Native using Maplibre and Stadia APIs
- Integrated a custom rich text editor with file upload, content sanitization, and interactive animation for unique UX
- Devised and implemented database and models with modern backend frameworks and clear documentation

Jupiter Intelligence – San Mateo, CA											**Dec 2024 – May 2025**
Design Intern
- Produced product specifications and high-fidelity designs for a consumer-facing enterprise GIS tool
- Conceptualized map interaction system and tooling to intuitively transform user intention to usable GIS data

IBM – Claremont, CA											**Sep 2024 – Jan 2025**
Product Design Consultant
- Designed an AI validation workflow, increasing efficiency by 500% while reducing labeling errors
- Prototyped 3 low-fidelity product iterations and 5 high-fidelity components leveraging the IBM design system
- Validated prototype through user testing, ensuring measurable improvement in user efficiency and experience

PROJECTS
Sustainability and Waterfalls Review and Website											**Jun 2025 – Aug 2025**
- Designed, implemented, and deployed a website to showcase stewardship organizations and efforts in the Pacific Northwest through an examination of 10+ local waterfalls and watersheds (https://ajm-l.github.io/cwf-site/)
- Devised custom components and layout, ensuring fast loading, effective UX, and reliable navigation

Personalized Pinterest Pins											**Jul 2024 – Jul 2024**
- Built a web scraper to automatically download 1000s of images while avoiding rate limiting and bot detection
- Created and trained DCGAN over 100 epochs to make synthetic Pinterest pins based using 85 MB of personal data

Easy Document Reader											**Sep 2024 – Nov 2024**
- Developed an AI-powered web app for realistic text-to-speech on images, PDFs, and documents
- Utilized Azure cloud AI tools for real-time document and image parsing and multiple TTS APIs for realistic speech
- Managed web and database hosting and security to maintain low costs while sustaining high user security

LEADERSHIP EXPERIENCE
Engineering Lead, Product Space											**Apr 2025 – Present**
- Collaborated to devise a year-long project-based learning curriculum for product management
- Created and led 5-week-long engineering unit to teach students important skills for future technical careers

First Year Guide (FYG), Claremont McKenna College											**Aug 2024 – May 2025**
- Collaborated with 3 Co-FYGs to welcome 20 first-year students to College through year-long mentorship program
- Lead icebreakers and team-building exercises, forming strong relationships and positive group dynamics
- Initiated and guided important conversations about college life, academics, and safety

SKILLS & INTERESTS
- **Technical:** Python, JavaScript/TypeScript, C++, Java, SQL, Django, Flask, Supabase, React, React Native, and Svelte
- **General:** Research, Design, Social Media, User Testing, Product Validation, and Problem Solving