

# AJ MATHESON-LIEBER

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## EDUCATION

### **Claremont McKenna College, Claremont, CA**

*Bachelor of Arts | Philosophy, Math, and Computer Science*

- GPA: 3.96 / 4.00
- Awards: Dean's List 23/24 and National Merit Scholar Finalist
- Activities: Product Space Fellow, Club Basketball, and ASCMC Athenaeum Advisory Committee
- Relevant Courses: Intro to Computer Science, Principles of Computer Science, Data Structures and Program Development, Principles of Economic Analysis, Multivariable Calculus, Linear Algebra, and Discrete Math

## EXPERIENCE

### **Graphite Group – Claremont, CA**

**Sep 2024 – December 2024**

*UI/UX Consultant for IBM*

- Designed a data review tool for IBM's InstructLab, improving efficiency in WatsonX AI's model training process
- Ideated, implemented, and presented custom features to improve usability and collaboration
- Contributed 3 low-fidelity UI prototypes and 5 high-fidelity custom components in Figma for IBM InstructLab team
- Validated prototype through user testing with IBM developers improving navigation, commenting, and user efficiency.

### **P-ai (AI and SWE Club) – Claremont, CA**

**Nov 2024 – December 2024**

*Full-stack Engineer and Product Designer*

- Designed, developed, and shipped AI-powered pdf reader application to the web ([easydocumentreader.com](https://easydocumentreader.com))
- Developed Python/Flask backend to convert PDF into speech using LMNT TTS and Azure web services OCR
- Implemented user authentication and security measures including JWT use and password protection

### **Faluna LLC – Seattle, WA**

**May 2024 – August 2024**

*Technology and Strategy Intern*

- Designed company website, planned photoshoots, and developed content and ads resulting in 50k+ impressions
- Interviewed costumers, performed A/B testing, and developed data informed branding and marketing strategies
- Created, tested, and implemented SEO strategy, moving company website from unlisted on Google to an average position of 5 with 20% CTR resulting in 1000+ site visits over 3-month period

## PROJECTS

### **AI Generated Cover Art for Spotify Playlists | *Python OpenAI, Spotify***

**July 2024**

- Developed a Python program that automatically generates unique and relevant cover art for users Spotify playlists
- Integrated OpenAI and Spotify APIs to retrieve user data, generate prompts and images, and upload to Spotify

### **Synthetic Pinterest Pins | *Python, PyTorch, Selenium***

**July 2024**

- Developed web scraping application to automatically download pinned images from my personal Pinterest account
- Utilized Python and PyTorch along with the GAN model architecture to design, implement, test, and train 2 custom deep convolutional neural networks to create synthetic images based on my personal Pinterest preferences

## LEADERSHIP EXPERIENCE

- Maitre D' at The Marian Miner Cook Atheneum | Communication, Service, Management
- First Year Guide (FYG) for Incoming College First Years | Mentorship, Leadership, Community Building
- Research Assistant for The Gould Center for Humanistic Studies | Communication, Project Management, Research

## SKILLS & INTERESTS

- **Languages:** Python, Java, JavaScript, C++, HTML/CSS, and MATLAB
- **Software:** Flask, Django, React, Tailwind, Git, Github, Pandas, PyTorch, Figma, Canva, Adobe Suite, CapCut, Meta Business Suite, Google Workspace, and Microsoft Office Suite
- **Interests and Hobbies:** Art, Philosophy, Feminist and Critical Theories, and Fashion