Jacob D. Kochian

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EDUCATION

Cornell University, College of Arts and Sciences   **Graduated May 2023**
Bachelor of Arts, Computer Science; Minor in Physics
Cumulative GPA: 3.75

Relevant Coursework: Computing using Python, Object Oriented Programming and Data Structures (Java), Discrete Structures, Linear Algebra, Data Structures and Functional Programming, Introduction to Machine Learning

WORK EXPERIENCE

Software Developer – Longtail Studios   **06/2023-Current**
- Led frontend development from 0-1 of a learning management system for MVP, iterating alongside design and business teams for initial market outreach.
- Created and developed frontend code for a suite of three e-learning products using Next.js and React.
- Developed backend architecture in Firebase by designing API endpoints, callable functions, and data models, allowing for data flow between products and first-party content library.

Software Engineer Intern – WeWork   **06/2022-08/2022**
- Implemented a general-purpose PDF rendering microservice that supports dynamic content injection.
- Migrated deprecated invoice PDF generation logic in Go to a third-party content management system (Contentful), reducing tech-debt and codebase complexity.
- Implemented a webhook in JavaScript so non-technical stakeholders could independently modify PDF templates, optimizing workflow for engineering teams.

Software Developer – AI-Learners (ai-learners.com)   **02/2021-02/2023**
- Collaborated with a student engineering team to develop a web platform of games for students with disabilities in React with a focus on accessibility and compatibility with assistive technologies.
- Developed an analytics dashboard for business stakeholders that displayed key metrics with regards to student understanding and website performance.
- As a team lead, managed a team of 8 developers and facilitated communication between design, engineering, and business teams to align goals and delegate engineering action items.

PROJECT EXPERIENCE

RecipeSieve
- Trained a hybrid binary classifier to filter unneeded text from recipe content, combining logistic regression and large language models (LLMs) for improved accuracy and contextual relevance.
- Optimized LLM usage with threshold-based logic, lowering processing costs while maintaining high precision (95%+) and F1-scores.

SPECIALIZED SKILLS

Programming Languages: Typescript, Python, Java, C, OCaml, Javascript, Go
Frontend/Web Development: React, Next.JS, Express, Node, HTML, CSS, Tailwind
Databases: PostgreSQL, Firebase, Firestore, MongoDB
Other Technologies: GitHub, VSCode, Docker, GCP, Jupyter, Unity
Other Skills: Problem Solving, Experimentation, Communication, Self-Management, Spanish (Fluent)