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
- Created and developed frontend code for a suite of three e-learning products using React.js
- Maintained and iterated on backend code with Firebase to facilitate data communication between each product while assuring scalability and security
- Abstracted shared code fragments into a comprehensive internal frontend component library, reducing technical overhead and speeding up development

Software Engineer Intern – WeWork
- As part of a summer internship, implemented a general-purpose pdf rendering service that supports dynamic content injection
- Migrated deprecated invoice PDF generation logic in Go to a third-party content management system to eliminate tech debt and reduce codebase complexity
- Implemented a webhook in JavaScript so sales/legal teams could modify PDF templates without the need of an engineer

Software Developer – AI-Learners (ai-learners.com)
- Worked with a team of students in React to develop a web platform of games for students with disabilities
- Integrated an API with Firebase to handle user data and gameplay history
- Developed analytics software for the business team using Python that displayed key metrics with regards to student understanding and website performance

PROJECT EXPERIENCE

Procedural Islands
- Created a procedurally generated landscape using Unity and C# scripting for a computer graphics practicum
- Extended octave noise function to infinity using a chunk-like system to support an infinite world
- Used a suite of Unity features to increase immersion via particle effects, directional lighting, etc.

SPECIALIZED SKILLS

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