

# Jacob D. Kochian

145 Attorney Street 4A  
New York, NY, 10002

email: [jdk287@cornell.edu](mailto:jdk287@cornell.edu)  
Cell: 732-890-8068  
[github.com/jdkochian](https://github.com/jdkochian)

## EDUCATION

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

**Graduated May 2023**

**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

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### 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](https://ai-learners.com))

- Worked with a team of students in React to develop a web platform of games for students with disabilities currently in use in 40 school districts
- 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

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### 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

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**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)