

# Noa Gillis

design engineer

## Experience

### **Design Engineer • Netflix** 2024 - present

Bridge engineering and design to build prototypes for patented particle systems, motion, and special effects. React, TypeScript, WebGL

Built vibe coding tool suite for the design team, expanding designer capability to iterate independently in their own prototyping environments. React, TypeScript, NodeJS

Designed and shipped a production gyroscope-reactive animation for the Android non-member home page — a new motion pattern for the main billboard card that responds to device tilt. Android

### **Senior UX Engineer • Cruise** 2022 - 2024

Designed and built the infotainment OS for the Origin, an autonomous car with no steering wheel — defining new interaction paradigms for passenger trust and experience. Android, Kotlin

Built real-time 3D visualizations of the car's computer vision perception system, translating raw computer vision data into Unity renderings during live drives through real streets. Unity, Kotlin, Android, C#

Led the conception and execution of the Origin prototyping toolkit, facilitating rapid prototyping and research with the Origin car. Android, Kotlin, Typescript, React, Python

### **ML Engineer, Tech Lead • Zencity** 2021 - 2022

Solo engineer on a team of data scientists: built full-stack services for ML model serving and data pipelines, including a client-facing feature enabling users to interact with AI classification results directly in the web product

### **Software Engineer • Intuition Robotics** 2019 - 2021

Built the platform enabling conversational designers to compose and deploy multi-modal conversation flows (dialogue, music, images) for ElliQ, an AI companion robot for older adults

## Contact

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## Projects

### **Sexism in the Judiciary: The Importance of Bias Definition in NLP and In Our Courts**

Introduced a novel NLP algorithm for bias detection in text, published in ACL and presented at ACL conference

### **Design Engineering Consultancy**

Design and engineering consulting for early-stage startups; UI/UX design, prototyping, production code

## Education

**University of Pennsylvania**  
Computational Cog. Science  
Computer Science  
Fine Art (minor)  
BA Cum Laude  
Honors thesis: Exploring biases in US law using NLP (Mark Liberman Lab)

## Programming Languages

Python  
Typescript  
Javascript  
Kotlin  
Jetpack Compose  
Java  
React  
React Native  
Android  
WebGL