EVAN KIRKILES
Full Stack Software Engineer

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EDUCATION

Yale University   **September 2020 – May 2024**
B.S. Computer Science, GPA 3.85   *New Haven, CT*
→ *Coursework*   Data Structures & Algorithms, Deep Learning for Big Data, Systems Programming, Computational Vision, Creative Embedded Systems, Software Engineering, Typography, Introduction to Graphic Design
→ *Leadership*   Co-president, Design at Yale (a Friends of Figma affiliate). Founder, Yale Undergraduate 3D Graphics Club. Founder, Yale Experiment Programmers Organization. Member, Yale Computer Society.

WORK EXPERIENCE

The New York Times   **June 2023 – August 2023**
Full Stack Software Engineer Intern, User Space   *New York, NY*
- Evaluated and expanded scope of client-side normalized Apollo GQL cache, reducing HTTP requests on some pages by 80%.
- Architected new, ADA-compliant Bottom Sheet surface for article and newsletter recirculation, surfaced to >1 million users.
- Improved site-wide Save functionality, allowing optimistic responses and single source of truth data on every NYT surface.
- During Maker Week, built native XR NYT reader using SwiftUI and the visionOS beta SDK, featured in the NYT Open Blog.
  TypeScript / React / Go / Scala / Python / GraphQL / SwiftUI / visionOS / Figma

Channel Studio   **January 2023 – June 2023**
Full Stack Software Engineer Intern   *New York, NY*
- Co-engineered an experimental music library explorer called Channel Music in campaign for brand publicity. Launches F2023.
- Led migration of backend stack from Redis to AppSync / DynamoDB, lowering costs 80% and enabling horizontal scalability.
- Authored open source Terraform provider for Netlify, written in Go, for syncing Netlify deployment environment variables.
  TypeScript / React / Pixi.js / Terraform / Go / Python / AWS / Figma

Praxis Pioneering   **June 2022 – August 2022**
Software Engineer Intern   *Miami, FL*
- Designed and implemented internal dashboard for timeseries analysis with both Python (Dash, Jupyter) and React clients.
- Architected database schema for indexing and searching timeseries metadata with vectorized search across similar trendlines.
- Wrote low-level React wrapper around graphing library μPlot, enabling 60fps across multiple synchronized timeseries graphs.
  TypeScript / React / Python / FastAPI / Postgres / GCP

Rescale   **June 2019 – August 2019**
Product Engineering Intern   *San Francisco, CA*
- Translated C# file transfer client to a cURL-based C++/Qt interface, allowing cross-platform use of download manager GUI.
- Restructured testing suites, improving testing suite run times and resource allocation across different hardware and libraries.
  C++ / Qt / Python / PyTest / Azure

PROJECTS

Paperarium   **November 2022 – Present**
https://paperarium.place   *New Haven, CT*
- Designed and programmed online archive and platform for paper sculpture using Next.js, PostgreSQL, and Supabase.
- Creating desktop CAD application for natively unfolding models into paper sculptures using C++, Qt, and Vulkan.
- Accepted into Yale Tsai CITY Accelerator's 2023 cohort to continue scaling software into a full product → funded $2000 grant.
  TypeScript / React / Next.js / WebGL / Vulkan / C++ / Qt / AWS / PostgreSQL / Figma

A Bit of Personal Space   **December 2022 – February 2023**
https://abitofpersonal.space   *New Haven, CT*
- Designed and programmed website allowing exploration of local artists' studios and submitted personal spaces in 3D.
- Exhibited in the Yale Center for Collaborative Arts and Media's 2022 *Machine as Medium* show alongside other artists.
  TypeScript / React / Next.js / Three.js / Supabase / PostgreSQL / Figma

SKILLS

Languages   TypeScript, Python, Go, C++, Swift, C#, C, Scala, SQL, GraphQL, HCL, Apache VTL, GLSL, JS/HTML/(S)CSS
Libraries   React, Next.js, Svelte, Electron, numpy, pandas, Flask, Qt, OpenGL, Vulkan, Three.js, WebGL, Unity, .NET
Platforms   AWS, GCP, Azure, Terraform, Docker, K8s, Jenkins, nginx, Git, Linux, CMake, Vercel, Netlify, CloudFlare
Resources   [AWS] DynamoDB, Lambda, RDS, Cognito, [GCP] App Engine, Cloud Run, BigQuery, Redis, RabbitMQ, Celery
Applications   Figma, Blender, Miro, Adobe InDesign, Photoshop, Illustrator, Premiere Pro, Lightroom, Pepakura Designer