



**VIVEK
DUTTA**



SOFTWARE ENGINEER

📍 San Francisco, CA

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🔗 vd7.io

📌 in/vdutts7

🔄 [/vdutts7](https://vdutts7)

EDUCATION

UC Berkeley

2019 - 2023

B.S., Electrical Engineering
& Computer Science (EECS)

SKILLS

LANGUAGES & FRAMEWORKS

- HTML / CSS
- iOS / Swift
- JS / TS
- Flask / python
- Java
- React / Node / Vue / Svelte
- PostgreSQL / GraphQL
- FastAPI / REST API
- Websocket / tRPC
- numPy / Pandas

ML & CLOUD

- pyTorch / Tensorflow / ONNX
- Redis / vector databases
- AWS / GCP / Huggingface
- Docker / Git
- GPT / Langchain

WEB 3

- Solidity
- Ether.js / Web3.js
- Hardhat
- Pinata / IPFS
- NFTs / Metamask

EXPERIENCE

Scorpx LLC

Owner & Founder

May 2021 - present

🔗 scorpx.shop

- Crew passion for digital design into six-figure global brand/business selling my own line of custom futbol (soccer) jerseys. Managed all aspects of business + product lifecycle: utilizing 3D design software for prototyping, researching raw materials, directly negotiating bulk production with overseas supplier, managing all supply chain logistics, and coordinating international fulfillment to customer doorstep.
- Organically grew 30K+ combined following, 1K+ email subscribers on IG, Twitter, TikTok community; pioneered innovative marketing (IG Stories, direct feedback) to continually refine, deploy, and promote new products and expand brand story.
- 5000+ customers over 89 countries, 150 unit/mo run-rate, 4.5+ star store rating.

Visa

Dec 2022 - Jul 2023

Software Engineer: Payments API

- Developed payment API microservices and REST APIs (Java, Spring Boot, Docker, AWS); automated deployments through continuous integration of builds and tests assisting senior engineers.
- Advanced design and prototyping of UI features (product team collaboration), validating logic improvements while gaining strategic exposure into Visa's transaction processing systems through daily standups/retrospectives.

Amazon Web Services

Jan 2021 - Aug 2021

Software Engineer: Prime Video

- Analyzed Prime member browsing preferences (AWS Redshift / Sagemaker, TensorFlow, GraphQL) to build personalized recommendation models, increasing watch time by 8%.
- Developed NLP tools utilizing scroll, browse, & bounce data (seaborn, REST API) which cut repetitive support queries by 15% (20 hr/wk).

PROJECTS

🔗 vd7.io/projects

Morphs AI

AI Character Chats

🔗 morphs.ai

- User app simulating chats with celebrities (Kanye, Rihanna, etc.).
- Fine-tuned Meta's Llama2 7B model on public social media dataset; RLHF + Constitutional AI (further alignment); quantized <4GB
- ML stack: pyTorch, HuggingFace, Bitsandbytes, PEFT-LoRA, ONNX
- Client app: Next.js + TailwindCSS, Pinecone (longterm bot memory), Redis (cached memory), Cloudinary, Planetscale, Prisma, Firebase.

Dexterity

Decentralized Cryptocurrency Exchange

- Built a decentralized exchange dApp allowing users to securely trade currencies using Ethereum wallet authentication via MetaMask.
- Developed smart contracts in Solidity for transactions, deployed to mainnet using Hardhat and Alchemy. Integrated MetaMask for smooth wallet authentication.

Abra AI

AI-Powered Interviews

🔗 abra-ai.vercel.app

- AI avatar simulates in-browser video mock interview: leverages Keras speech recognition + TensorFlow to analyze a user's emotional cues (visual) + verbal logic (audio) to a question and instantly streams back data-driven feedback (FFMPEG, GPT-4).
- GraphQL (company dataset API); Redis (answer cache); serverless deployment (AWS Lambda); frontend (Next.js). In beta currently.

Trivial Trivia

iOS mobile game

- iOS trivia app built with SwiftUI: utilized OpenTrivia database API to query randomized questions and MVVM architecture to dynamically display answers across adaptive components. Users generate new question sets on completion with scores.
- Full stack app built on XCode with with Combine, Gestures, and modern SwiftUI styling focused on simple + pleasant UI.