

Erich Owens

via [LinkedIn](#) • San Francisco Bay Area • [LinkedIn](#) • [GitHub](#)

PROFESSIONAL SUMMARY

Mathematical Problem-Solver Who Jumps Domains (NLP→CV→VR→Medical AI→Drones) and Ships Systems That Last Decades Linked 500k users by semantic content; enabled personalized news discovery Expertise in Python, Machine Learning, Natural Language Processing, Computer Vision, System Design. Build transformative AI products at high-growth companies

CORE SKILLS

Python • Machine Learning • Natural Language Processing • Computer Vision •
System Design • Ranking Systems • Recommendation Systems • VR/AR Development •
3D Graphics • Spatial Computing • Avatar Systems • C++ • PyTorch • TensorFlow •
PHP/Hack • TypeScript/JavaScript • Face Tracking • Unity • C# • CLIP

WORK EXPERIENCE

CTO

Aug 2024

Dolphin AI

- Building AI/CV systems for geospatial intelligence, roof damage assessment, and property analytics

Engineering Manager / Tech Lead Manager - Facebook AI Editing Meta

Jan 2023

- Shipped AI-powered editing features to billions of users across Facebook mobile apps

Engineering Manager - Avatars Craft Meta

Jun 2022

- Scaled avatar systems to support Meta's VR ecosystem; shipped ML-powered avatar generation

Engineering Manager / Tech Lead Manager - XR Tech Meta

Jan 2021

- Shipped production face tracking to Instagram AR effects used by millions daily

Staff Engineer - Instagram AR Meta

Jun 2019

- Improved discovery of high-quality AR effects, increasing engagement and creator retention

Engineering Manager - FAIR (Facebook AI Research) Meta

Jan 2018

- Supported open-source AI research including fastMRI dataset release with NYU Langone

Founding Engineer - Facebook Spaces Meta

Jun 2016

- Shipped company's best-reviewed avatars (FastCompany coverage); launched Facebook Spaces to public

Engineer - Building 8 Meta

Jun 2015

- Explored cutting-edge VR input modalities and spatial scanning

Engineer - Oculus Vision Meta (Oculus)

Jan 2015

- Used VR to design VR experiences, accelerating product development cycles

Tech Lead - Comment Ranking Meta (Facebook)

Jun 2014

- Commentology tool still used company-wide a decade later; significantly improved comment quality

Engineer - News Feed Ranking Meta (Facebook)	<i>Jun 2013</i>
<ul style="list-style-type: none"> • Pioneered computer vision in newsfeed ranking; filed patent; improved user experience 	
ML Engineer (First Hire) Newsle	<i>May 2012</i>
<ul style="list-style-type: none"> • Linked 500k users by semantic content; enabled personalized news discovery 	
Engineer Quid	<i>Sep 2011</i>
<ul style="list-style-type: none"> • Built visualization tools for understanding company ecosystems 	
Adjunct Instructor Rhode Island College	<i>Jun 2011</i>
<ul style="list-style-type: none"> • Shared mathematical foundations with next generation 	
Researcher Pierre and Marie Curie University (Paris VI)	<i>Jun 2010</i>
<ul style="list-style-type: none"> • Contributed to mathematical research in probability theory 	
Space Grant Intern NASA JPL	<i>Jun 2008</i>
<ul style="list-style-type: none"> • Contributed to NASA's next-generation spacecraft program 	
Laboratory Intern SLAC National Accelerator Laboratory	<i>Jun 2006</i>
<ul style="list-style-type: none"> • Research on medical device materials 	

EDUCATION

MS Applied Mathematics - Brown University	<i>2011</i>
BS Applied Mathematics - Columbia University	<i>2009</i>
Budapest Semesters in Mathematics - Budapest Semesters in Mathematics	<i>2007</i>

AWARDS & RECOGNITION

- GPT-3 and CLIP Avatar Generation from Description (Fourth Hackathon Win)
- Thermal Haptics for VR Controllers (Third Hackathon Win)
- Meme Development Tracking Across FB/IG (Second Hackathon Win)