BRIAN WANG

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EDUCATION

University of California, Berkeley
Electrical Engineering and Computer Science

TECHNICAL SKILLS

- **Languages:** Python, Java, C++, JavaScript, SQL, Dart, LuaU
- **Frameworks/Services:** React, Next.js, Flask, FastAPI, AWS (Lambda, S3, DynamoDB), Flutter, Firebase
- **Tools:** Git, Docker, CAD | Other: Project Management, Robotics | Google Certs (Cybersecurity, Python)

PROFESSIONAL EXPERIENCE

Stanford & Berkeley AI Mobilebench Research Intern   August 2025 - Present
- Embedded synthetic exploits in sandboxed APKs to benchmark LLM vulnerability detection.
- Collaborated w/ 30+ undergrads & 5+ industry leads to build secure Android CIA testing pipelines.

Virtual Medical Missions CS Lead Intern | Now CS Mentor   July 2024 - Present
- Cut project delivery times by ~30% by leading backend development (Quart/Flask + PostgreSQL).
- Revitalized operations post-team collapse by organizing workshops and rebuilding project timelines.
- Collaborated across teams, increasing project completion rate by ~70%.

Coding Stem Academy 3D Game Developer Intern   Feb 2024 - May 2024
- Taught high school students Unity, Gimp, C#, and game design principles
- Improved course efficiency & student outputs during one full teaching cycle in the academy
- Led & mentored 20+ students in delivering completed game projects for IgniteCS before due date.

Agile Studios Lead Roblox Game Developer   July 2022 - Present
- Led 10+ team members in a Roblox indie game studio, accumulating over 60k views on YouTube
- Wrote 10k+ lines of code with over 200+ hours of development
- Started a Community server with over 200+ members
- Created AI NPCs, combat systems, VFX, Physics Raycast Parkouring Systems, Momentum Launchers, etc.

PROJECTS

Empath AI: Fine-tuned Text-Generation AI Model Therapist for Emotions
- Fine-tuned **Mistral-7B** from a database of 8.5k+ emotional text samples, optimizing training (4× faster) via **FlashAttention 2, batching, and GPU memory tuning.**
- Developed full-stack app **(Next.js + FastAPI)** supporting 9 languages.

CVision: Serverless Resume Screening
- Built full-stack analyzer **(Next.js, FastAPI, AWS Lambda/S3/DynamoDB)** parsing resumes via keyword & regex-based logic, processing results in ~5s per file.

Interdex.ai: Automated AI-powered Interview
- Built in 30 hours with 3 teammates using the **ReactJS + Flask** frameworks and **Gemini API + Google TTS + Firebase** services for persistent voice-based interviews.

NaviGaze: Python-based AI Assistance for Computer Navigation using Speech & Facial Detection
- Engineered real-time speech & head-tracking assistant for accessibility using **Mediapipe, SpeechRecognition, and PyAutoGUI.**
- Enabled full hands-free PC control for users with limited mobility.