BRIAN WANG

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EDUCATION

University of California, Berkeley
Electrical Engineering and Computer Science

PROFESSIONAL EXPERIENCE

Virtual Medical Missions CS Lead Intern | Now CS Mentor   July 2024 - Present
- Managed project timelines, reducing delivery times by ~30%.
- Developed Website & EMR system back-end utilizing Quart/Flask Python, PostgreSQL
- Collaborated with cross-functional teams, enhancing project success rates by ~70%.
- Stayed when CS team collapsed; held workshops & brought life back to VMM

Project Agile Lead Game Developer   July 2022 - Present
- Lead indie game studios Agile Studios, accumulating over 60k views on YouTube
- Wrote 10k+ lines of code with over 200+ hours of development
- Lead 10+ team members at studio's peak
- Started a Community server with over 200+ members

3D Game Developer Intern | Coding Stem Academy   Jan 2022 - June 2025
- 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 20+ students in delivering completed game projects for IgniteCS before due date.

Encryption Algorithm Researcher   Sep. 2022 - Oct. 2022
- Encryption/decryption of bits by mirroring & half/full reversals horizontally/vertically
- Full project research paper presented to eSTEM Academy & Congressional App
- Led teams of 3 & 4 (respectively) with a co-developer

PROJECTS

CVision: Serverless Resume Screening
- Built a full-stack resume analysis platform using Next.js, FastAPI, AWS Lambda, S3, and DynamoDB
- Parsed and screened resumes with keyword and regex-based logic in Python for 10 documents/sec
- Designed a serverless architecture, reducing backend latency by ~80% compared to traditional REST APIs

NaviGaze: Python-based AI Assistance for Computer Navigation using Speech & Facial Detection
- Engineered a Python AI assistant enabling full computer control using head movement and speech
- Implemented real-time facial detection (Mediapipe) and voice command parsing (SpeechRecognition)
- Controlled GUI elements with PyAutoGUI, enabling accessibility use cases for users with limited mobility

Food Image AI Predictor
- Trained an image classifier with TensorFlow/Keras on 22,000+ images, achieving ~95% test accuracy
- Used Edward Zhang's Fruit-360 dataset; tested on 1,600+ images across 30 training epochs
- Preprocessed and augmented datasets to improve generalization and class training

Empath AI: Fine-tuned Text-Generation AI Model Therapist for Emotions
- Trained Mistral-7B on 85k+ lines using HuggingFace Datasets over 7+ hours on 1× RTX 3060 GPU
- Accelerated generation speeds 4× via batching, FlashAttention 2, pinned memory, and non-blocking transfer
- Built full-stack app with Next.js frontend and FastAPI backend, supporting multi-language input

TECHNICAL SKILLS

- **Technical Skills:** Project Management, Structural Analysis, Robotics and Automation, CAD
- **Languages:** Java, C++, Python, JS/X, Dart, Bootstrap, Tailwind, PostreSQL, LuaU
- **Certifications:** Google - Cybersecurity | IT Automation w/ Python | IT Support Professional
- **Frameworks/Tools:** React, NextJS, Flask, Ollama, AWS, Flutter, Jupyter Notebook, Git, VSCode