

Anoushka Shah

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Education

University of California, Berkeley - College of Computing and Data Science

Expected December 2026

Bachelor of Arts, Cognitive Science and Data Science

Professional Experience

Microsoft AI

Mountain View, CA

AI Product Engineer (Contract)

2/2026-Present

- Led 0 to 1 development of a personalized article intelligence system for MSN, highlighting salient buzzwords and dynamically linking semantically related recent news coverage. Visualized prototype with interactive MVP
- Architecting LLM parsing, vectorized knowledge graph, and personalized retrieval workflows using Azure, LangGraph, FastAPI, Neo4j, and Chroma with Streamlit-based visualization
- Designing interface, interactions, journey, and system architecture mappings in Figma and Adobe Creative Cloud

Google DeepMind

Mountain View, CA

Agentic AI UX Engineer (Contract)

12/2025-3/2026

- Agentic AI product design and Gemini alignment-system logic for AIUX Research Team. Designed user trust and model autonomy alignment system using Reinforcement Learning from Human Feedback (RLHF). Implemented UI for agentic calendar extension with autonomy adjustment within Google Calendar using Google API, Gemini LLM, React, and Node.js
- Led the design of a Bayesian model for a global user "trust in automation" score as the posterior mean over a distribution of implicit user behavioral signals and explicit feedback. Designed a calibration algorithm, where trust score is evaluated in the context of distributional variance and user reliance variables within the reward function for autonomy adjustment
- Designing decision/information flows, user journey, and system architecture mappings in Figma and Adobe Creative Cloud

AWEAR

San Francisco, CA

ML Infrastructure Intern

08/2025 - 12/2025

- Wearable device startup backed by Techstars. Performed testing with cost, latency, failure analysis of real-time EEG signal processing pipeline with Google Cloud Platform and Cloud Run.
- Designed and implemented feature extraction pipeline for classification of mental states from streamed EEG data using Pytorch, Scikit-Learn, NumPy, SciPy, and GCP Cloud Storage
- Conducted statistical analysis and hypothesis testing (t-tests, power tests) for identifying biomarkers of resting vs. focused attention states in noisy EEG data through analysis of alpha-beta wave ratios and power spectral density. Led A/B testing sessions of prototypes for assessing product design of hardware from signal quality, usability, user comfort

University of California, San Francisco - Department of Radiology and Biomedical Imaging

San Francisco, CA

Research Fellow, Center of Intelligent Imaging AI Fellowship

05/2025 - 08/2025

- Mentored by Dr. Melanie Morrison, PhD, to lead a project in deep-learning based neuroimaging for visualization of 3D electrode lead trajectory in postoperative deep-brain stimulation (DBS) patients with movement disorders
- Led end-to-end development and testing of a slicewise 2D UNet Model with 3D reconstruction for binary segmentation of leads from CT scans using PyTorch, Nibabel, FSL, and ITK
- Shadowed intraoperative-MRI procedures for understanding AI implementations to surgical workflows and created dataset for supervised learning using ITK Snap to manually label electrode masks from Nifti image volumes
- Presented work and discussed computer vision for neuroimaging at UCSF Mission Bay's Symposium for Radiology and Biomedical Imaging, publishing in the International Society for Magnetic Resonance in Medicine

Extracurricular Involvement

Neurotech@Berkeley

Berkeley, CA

Research Engineer, Neural Signals

08/2025-Present

- iEEG signal processing, implemented linear encoding and MLP decoding for understanding neural basis of music cognition
- Building on the results from UC Berkeley's Knight Lab for music reconstruction through audio spectrogram methods by replicating study with vocal-instrumental data split and identifying differential patterns in active brain regions

Marketing and Design Lead

08/2023-Present

- Growth, social media management, and graphic design for the largest student community of engineers and researchers in AI and BCI development. Organized first neurotechnology student hackathon in partnership with NVIDIA AI and Open BCI

Skills, Tools, Awards

Skills: Python, PyTorch, TensorFlow, SciKit Learn, SciPy, Pandas, NumPy, Matplotlib, MATLAB, Java, SQL, Arduino, LangChain, LangGraph, Retrieval Augmented Generation (RAG), Reinforcement Learning (RL), Bayesian Modeling, Neural Networks (CNN, RNN), Streamlit, React, Node.js, TypeScript, Figma, Adobe Creative Cloud, Google Cloud Platform (GCP), EEG/EMG, CT, MRI, Ultrasound

Awards: National Gold Key, Painting (2022 Scholastic Art and Writing); National Silver Key, Drawing (2022 Scholastic Art and Writing)