

Lucky Jain

luckyjain1.github.io | ljain2@jh.edu | (408) 461-1414

Skills

Languages: Python, Java, C/C++, SQL, JavaScript/TypeScript

Libraries: PyTorch, NumPy, Pandas, SciPy

Projects

Co-Creator | [Eyedentify-AI](#) May 2025 – Present

- Built ML diagnostic system (94% accuracy) using CNNs and Grad-CAM explainability; optimized backend for real-time inference; deployed full-stack platform to live users.

Full-Stack Developer | [Semester.ly](#) Feb 2025 – Present

- Developed GPT-powered course recommendation engine; integrated NLP query parsing with backend course graph; serving 4,000+ students.

Project Lead | [Baltimore Foodline](#) Sep 2024 – Present

- Built Ignite Fund-backed platform with automated data pipelines and real-time inventory updates from food pantries using scalable backend architecture.

Full-Stack Developer | COACH @ JHMI Feb 2025 – May 2025

- Deployed Android app + AWS portal with secure database backend supporting fear-learning research for 500+ participants.

Research

Researcher | LCICM @ JHMI Nov 2024 – Present

- Engineered 10+ time-series features (vitals, meds, infections) improving ML model accuracy for ICU delirium prediction.

Decoding Lead | BCI Society @ JHU Sep 2024 – Present

- Leading ML pipeline for EEG image construction decoding; conducting reward vs. punishment EEG experiment for IEEE presentation.

Researcher | Neural Dynamics & Behavior Lab @ UCI Sep 2024 – Present

- Implemented PyTorch embeddings for EEG decoding, outperforming PCA/raw baselines in accuracy and signal representation.

Education

Computer Science & Neuroscience | Johns Hopkins University Aug 2024 – May 2027

Courses: Data Structures, Probability & Statistics, Linear Algebra & Differential Equations

Dean's List