Soham Jain

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Education

Carnegie Mellon University

December 2027

B.S. in Computer Science, School of Computer Science

Experience

Machine Learning and Software Engineer | Vytal.Al

May 2022 - June 2025

- Developed NeurOS, a smartphone AI application quantifying brain health using novel gaze-tracking algorithms
- o Designed scalable business model, securing \$1.2M in seed investments (\$12.5M valuation)

Computer Science and Quantum Computing Researcher | Virginia Tech

April 2024 - June 2025

- o Led undergraduate research team with Dr. Atul Mantri on graph coloring with Grover's Algorithm
- Conducted literature reviews to identify gaps in contemporary quantum computing research

Projects

RoutineRemind | Congressional App Challenge Winner

June 2022 - Present

- o Developed provisional patented scheduling app for individuals with speech and cognitive disabilities
- Deployed on Google Play and App Store; selected by U.S. Representative Jennifer Wexton

EyeLS | IEEE Technical Excellence Award (3/400+ projects)

Aug 2023 - Present

Built gaze-tracking web app for ALS patients using Kalman Filtering and Monte Carlo algorithms

President & Co-Founder | Youth International Digambar Jain Organization

Feb 2022 - Present

o Raised over \$25,000 for constructing a Jain temple in Virginia; manage organization website

Research & Publications

LapseNet: A Hybrid CNN-LSTM Approach for Vision-Based Fall Detection | IEEE

Conference

First-author publication. Best Presentation Award at 6th International Conference on Robotics and Computer Vision

RexDash: Dashboard for Replica Exchange Molecular Dynamics Simulations | JSSR

First-author publication with Dr. Christopher Lockhart at George Mason University

Transformer-Based ALS Diagnosis via EEG Analysis | IEEE ICACTE

First-author paper on diagnosing ALS in two minutes. Oral presentation at 17th International Conference

ConVox: Deep Learning for Voice Disorder Detection | IEEE IC-BAIE

First-author paper. Multilingual voice disorder detection model accepted at 5th International Conference

Honors & Awards

Congressional App Challenge Winner (VA-10) | Meta Hacker Cup Round 2 Qualifier (Top 10% of 20,000+) | 5x Devpost Hackathon Winner | IEEE Technical Excellence Award | IEEE Best Presentation Award

Technical Skills

Languages: Python, Java, JavaScript, TypeScript, C++, C, SQL, R, MATLAB, HTML/CSS

Frameworks & Tools: React, React Native, Node.js, MongoDB, Firebase, TensorFlow, PyTorch, Keras, Scikit-learn, Pandas, Git, Google Cloud