





Soham Jain

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Education

Carnegie Mellon University

Bachelor of Science in Computer Science

December 2027

Pittsburgh, Pennsylvania

- **Concentration:** Machine Learning
- **Relevant Courses:** Data Structures and Algorithms, Artificial Intelligence, Applied Machine Learning, Discrete Math, Linear Algebra, Multivariable Calculus, Computer Vision, Mobile & Web Application Development, Research Statistics, Physics, Biology, Psychology

Technical Skills

Languages: Python, Java, C++, C/C0, JavaScript, SQL, HTML/CSS, TypeScript, Q#, LaTeX

Developer Tools: Git, Vim, VS Code, MongoDB, Google Cloud, AWS, Azure, Firebase, Jira, Android Studio, Jupyter Notebook, Figma

Libraries & Frameworks: React, Node.js, Next.js, Flask, PostgreSQL, NumPy, Pandas, TensorFlow, PyTorch, Keras, Scikit-learn, OpenCV

Experience

Vytal.AI

Machine Learning and Software Engineer

May 2022 – June 2025

Alexandria, Virginia

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

Virginia Tech

Computer Science and Quantum Computing Researcher

April 2024 – May 2025

Blacksburg, Virginia

- 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

June 2022 – Present

- 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

CMUEats

Aug 2025 – Present

- Something

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

Leadership

Organization Name

Date – Present

Leadership Role

- Leadership achievement or responsibility
- Leadership achievement or responsibility