Neelansh Khare

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Professional Summary

Results-driven Computer Science student with expertise in software engineering, machine learning, data analysis, and full-stack development. Seeking to leverage strong technical skills and research experience to contribute to innovative software solutions in a challenging software engineering role.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C++, C, Go, SQL, R

Frameworks/Technologies: React, AWS, TensorFlow, Docker, Git, REST APIs, OpenCV, JUnit, Playwright

EDUCATION

University of California - Irvine

Irvine, CA

B.S. Computer Science

Expected Graduation: June 2025

Relevant Coursework: Machine Learning & AI, Data Structures and Algorithms, System Design, Data Management, Compilers, Software Engineering and Testing

Leadership: Software Developer (ICSSC), President (Indian Subcontinental Club), Google Developer Student Club, Data and Analytics for Sigma Pi, Software Developer for Legacy Robotics, Volunteer for ENGin

EXPERIENCE

Software Engineer

Irvine, CA

University of California, Irvine

June 2022 - Present

- Developed a Java automation system for effort reporting, reducing processing time by 90%.
- Architected a documentation generator using Java and RESTful APIs, improving onboarding efficiency.
- Implemented backend features for a financial aid portal using Java/JUnit, improving data loading by 30%.
- Created a frontend testing framework using React and Playwright, resolving UI inconsistencies.
- Designed a database anonymization application using Java/SQL for FERPA compliance.

Undergraduate Researcher

Irvine, CA

He Lab, University of California, Irvine

January 2024 - Present

- Developed a deep-learning model for nano-particle motion prediction (pending paper publication).
- Engineered a Python-based CNN for electron microscopy analysis, achieving 95% accuracy.
- Created a synthetic data generation pipeline producing 10,000+ realistic microscopy images.

PROJECTS

AI-Based Stock Trading | Python, REST APIs | github.com/Neelansh-Khare/tradingScriptBardSchwab

- Engineered an automated trading system using AI for market analysis and Schwab APIs for execution.
- Implemented risk management algorithms with stop-loss mechanisms, reducing potential losses by 15%.
- Developed real-time market monitoring system with **sub-second latency**.

Object Recognition System | Python, OpenCV | github.com/Neelansh-Khare/ComputerVisionProgram

- Built a real-time object detection system with 97% accuracy using custom-trained CNN models.
- Designed a user-friendly GUI for visualization and result logging using Matplotlib.

AI File Organizer | Python, ML | github.com/Neelansh-Khare/AI-File-Organizer

- Engineered a file management system using K-Means clustering, reducing manual organization time by 75%.
- Implemented cosine similarity algorithms for sorting files with 92% classification accuracy.
- Developed text processing and embedding pipelines for 8 file types, handling 5,000+ test files.

Compiler and Interpreter | Python | github.com/Neelansh-Khare/compiler-tiny

- Built a fully-functional compiler/interpreter for the Tiny language with lexer, parser, and semantic analyzer.
- Implemented support for user-defined functions and variables in the language processing pipeline.