

Neelansh Khare

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OBJECTIVE

Eager to secure a full-time software engineering position. With extensive hands-on experience in **application, web development and full-stack development**, I have honed my skills in **Python, Java, React, SQL, and JavaScript**. My deep expertise in these technologies equips me to make significant contributions to innovative projects, driving development with cutting-edge solutions and robust methodologies.

EDUCATION

University of California - Irvine

Irvine, CA

Bachelor of Science in Computer Science

Expected June 2025

Relevant Coursework: Machine Learning, Neural Networks, Data Structures and Algorithms, System Design, Data Management, Computer Vision, Software Engineering, Software Testing, Analysis, and Quality Assurance, Compilers, Virtual Reality

Skills: Python, Java, JavaScript, React, SQL, C++, R, Git, Gradle, Maven, ROS2, OpenCV, Node.js, AWS, TensorFlow, MongoDB, Kotlin, Figma, Copilot.

Leadership: Software Developer for ICSSC, President for the Indian Subcontinental Club, Google Developer Student Club, Volunteer for ENGIN, Philanthropy Chair for Sigma Pi, Software Developer for Legacy Robotics

EXPERIENCE

Software Developer

June 2022 – Present

University of California, Irvine

Irvine, CA

- Engineered a **Java** application to automate effort reporting processes, achieving a **90% reduction** in time spent.
- Constructed a **Java** web scraping tool using **RESTful APIs** for quicker onboarding through generated documentation.
- Implemented and **tested complex backend** features for a financial aid website using **Java and JUnit**, enhancing system efficiency and user satisfaction.
- Resolved **frontend** visual bugs and improved UI interactions using **React**, elevating the user experience.
- Utilized **SQL** to perform sophisticated **database optimizations**, fine-tuning queries and schemas to enhance data retrieval speed, and anonymize user data.
- Created a series of **JavaScript** scripts that process, visualize, and modify excel files for **data analysis**.

ML Research Intern

January 2024 – Present

He Lab, University of California, Irvine

Irvine, CA

- Worked on predicting the movement of nano particles using OpenCV, and PyTorch. Pending a paper publication.
- Calibrated an electron microscopy **neural network in Python** for correctly identifying nano-particles.
- Designed and implemented an **algorithm to generate image sample data** that replicates microscopic electron images to test our model.

PROJECTS

AI Based Stock Trading | *Python, REST APIs*

- Created a Python script for stock tracking and automated, risk-averse sales using Bard AI and Schwab APIs.

Object Recognition Script | *Python, Matplotlib, OpenCV*

- Built an app with OpenCV and Matplotlib for recognizing individuals, household items and cross-verifying results.

Python Based Discord Bots | *Python, REST APIs*

- Produced Discord bots for engagement-boosting games, resulting in a 70% increase in server engagement.

Website Development | *JavaScript, Java, MongoDB, React, WordPress, HTML, CSS, REST APIs, AppScript, Svelte*

- Developed 2 full-stack club/stealth startup websites with Java backend, Svelte/React frontend, and MongoDB.
- Integrated PayPal API and implemented Google Sheets AppScript macros for financial data-related automations.

Upkey Professional Development Workshop | *Kotlin, Figma*

- Led a team to 3rd place with a fully functional Kotlin mobile application pitch.

Compiler and Interpreter | *Python*

- Built a fully-functional compiler/interpreter from scratch in Python that processed the low level language Tiny.