

Neelansh Khare

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OBJECTIVE

Aspiring to secure a Summer 2024 software engineering internship where I can apply my passion for Full-stack development. Equipped with hands-on experience in application development, web-development, and a keen interest in exploring the applications of software in all fields. Eager to contribute on innovative projects and solve complex problems in a dynamic team environment.

EDUCATION

University of California - Irvine

Irvine, CA

Bachelor of Science in Computer Science

Expected March 2025

Relevant Coursework: Intro to Artificial Intelligence, Data Structures and Algorithms, System Design, Data Management, Computer Vision, Software Engineering, Software Testing, Analysis, and Quality Assurance

Awards: Dean's Honor List x3

Extracurriculars: Software Developer for ICSSC, VP for the Indian Subcontinent Club, Intern for ASUCI, Volunteer for ENGIN, Philanthropy Chair for Sigma Pi, Ex Software Developer for Legacy Robotics/UCI Fits

EXPERIENCE

Software Developer

June 2022 – Present

University of California, Irvine

Irvine, CA

- Engineered a Java application to automate manual processes, achieving a 90% reduction in task completion time.
- 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 accuracy, thereby streamlining the application's overall performance and user experience.

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.
- Calibrated an electron microscopy neural network for the research project's objective.
- Designed 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 visualizing results.

Python Based Discord Bots | *Python, REST APIs*

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

Upkey Professional Development Workshop | *Kotlin, Figma*

- Led a team to 3rd place with a Kotlin mobile app pitch that worked to find on to go gym solutions.

SKILLS

Languages/Frameworks: Python, Java, JavaScript, React, SQL, C++, R, Git, Gradle, Maven, ROS2, OpenCV, Node.js, AWS, TensorFlow, MongoDB, Kotlin.

Developer Tools/Skills: Visual Studio Code, Eclipse, IntelliJ, IDLE, GitHub, Excel, Atlassian Suite, BlueJ, SQL Server, Android Studio, Figma, Agile, CI/CD, Unit Testing