Neelansh Khare

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Objective

Eager to secure a full-time software engineering position where I can harness my enthusiasm for full-stack development. With extensive hands-on experience in application and web 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.

Extracurriculars: Software Developer for ICSSC, President for the Indian Subcontinent 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 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 anonymize user data.
- Created a series of JavaScript scripts that process, visualize, and modify excel files for data related processes.

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 algorithim to generate image sample data that replicates microsopic 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.