

March 8, 2024

Hiring Manager
Ansh_Sharma_Portfolio
Arizona State University

Dear Hiring Manager,

I am writing to express my genuine enthusiasm for the **Software Engineer Intern position**, as advertised on **Ansh_Sharma_Portfolio** platform, Arizona State University. As a current graduate student pursuing a Master of Science in Software Engineering (MSSE) at Arizona State University, coupled with my internship experience and projects, I am excited about the opportunity to contribute to your team and further develop my skills in a professional environment.

The following are illustrative examples of my internship, academic projects, and activities for this role:

- **React Developer:** During my internship at Hiration Career Technologies, I collaborated on developing a server-side rendered web application using the React framework, utilizing JSX for component design and modification. Additionally, I contributed to the integration of Next.js with Node.js for NLP modelling. Version control was managed using Git, and project coordination was conducted through GitHub. I facilitated the deployment through Vercel. I accomplished the design tasks using Figma and UML, while testing involved both Exploratory Testing as a white box approach and Junit5 Jupiter for Black Box testing. To ensure comprehensive test coverage and quality analysis, I generated JACOCO reports.
- **Agile Realms (Java Swing):** In my role as a Scrum Master overseeing the development of a Scrum simulator, I employed TAIGA and JIRA for effective project management and maintenance of the Sprint Backlog. Collaboration with the team involved utilizing Git for seamless individual contributions, commits, and merges, ensuring conflict-free integration. Working both as a Team Member and Scrum Master, MySQL served as the primary database, with SQL utilized for queries and backend connectivity. Testing strategies varied, incorporating Test-Driven Development (TDD) for certain components, and utilizing Equivalence Partitioning, Boundary Value Analysis, and Cause-Effect tests for comprehensive coverage across the application.
- **Deep Learning:** As a research student in Deep Learning during my bachelor's program, I built an efficient detection model based on You Only Look Once (YOLO) and Sliding Windows Algorithm, better efficient in floating point operations by 9.5%. I trained the model on PASCAL VOC12 dataset. I conducted a detailed literature review before working on the project and published a paper in the IEEE's CSCITA conference. DOI: 10.1109/CSCITA55725.2023.10104969. Link: <https://ieeexplore.ieee.org/abstract/document/10104969>

Thank you for taking the time to review my application. I am eager to further discuss how my skills and experiences align with the needs of your team. Please find my resume attached for your review. I am available for an interview at your earliest convenience and can be reached at (480) 370-9076 or via email at anshsharma120601@gmail.com.

Sincerely,
Ansh Sharma