

SANJEEV KUSHAL PENDEKANTI

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Education

Northeastern University

Master of Science in Computer Science

Sep. 2024 – May 2026

Boston, MA

Manipal Institute of Technology

Bachelor of Technology in Information Technology

Oct. 2020 – May 2024

Manipal, India

Experience

99 Yards

May 2025 – Aug. 2025

Software Engineer Intern

New York, NY

- Resolved critical signup and profile image upload bugs using TypeScript, increasing onboarding completion rates by over 40% and enabling high-resolution profile images.
- Streamlined Redux state management to deliver smoother navigation and restructured API calls to cut unnecessary data fetching, reducing app crashes by 20% and improving load times.
- Refactored the multi-step job posting flow and improved backend integration with Java Spring Boot, consolidating screens and reducing process time by 2x.
- Led the end-to-end overhaul of the Offers module, leveraging Google Cloud Platform (GCP) for scalable multi-image storage and launching a redesigned UI to improve user experience.
- Configured GitHub Actions for CI/CD and integrated Jest tests into the React Native codebase, enabling reliable production deployments and reducing regression bugs.

Khoury College of Computer Sciences

Jan. 2025 – Mar. 2025

Graduate Teaching Assistant

Boston, MA

- Mentored 50+ students in building Android applications using Kotlin and Jetpack Compose in the CS 4520 course.
- Held weekly office hours, resolving technical queries on UI architecture, Firebase integration, and Android components.
- Evaluated 60+ mobile development assignments and projects, providing actionable feedback to improve code quality.

Manipal Institute of Technology

Aug. 2023 – May 2024

Undergraduate Research Assistant

Manipal, India

- Built high-accuracy medical ML models, including a Random Forest model for liver cirrhosis prediction (86% accuracy) and OTONet, an otoscopy image classifier using Octave 3D Convolution (99.3% accuracy).
- Published 5 research papers on medical AI and image classification in top peer-reviewed IEEE journals and conferences.

Boeing

Jun. 2023 – Aug. 2023

Software Engineer Intern

Bangalore, India

- Implemented a localized SQLite3 caching layer, replacing external API calls with local database lookups to reduce latency by 30% and enable XML/JSON response support for easier system integration.
- Automated workflows by developing RESTful services in Python and Flask to improve configurability, reduce integration turnaround and cut application response times by 50%.
- Designed and deployed a distributed task dispatcher using AWS SQS and Boto3 to enable scalable, fault-tolerant task dispatching and eliminate infrastructure management overhead.
- Collaborated with developers and Scrum Masters in Agile sprints, using JIRA for task tracking and participating in code reviews to maintain high code quality and meet release deadlines.

Projects

Web App for Legal Case Management with ML Prioritization | *React, MongoDB, Node.js, Java, Python*

- Built a full-stack legal case management system with automated ML-based case prioritization and secure RESTful APIs using Spring Boot, JWT authentication and JPA/Hibernate.
- Indian patent application approved and published for the system's prioritization algorithm and workflow design.

Cross-Platform Domestic Help Finder App | *Java, Android Studio, Swift, Firebase*

- Developed a cross-platform iOS and Android app with dedicated user and provider flows for booking domestic help, featuring real-time status updates and in-app messaging.
- Integrated Firebase services including Authentication, Realtime Database for live data sync across 10+ app screens, and Google Maps API for location-based matching.

Technical Skills

Languages: Java, C/C++, Python, JavaScript, TypeScript, SQL, Swift, Kotlin

Frameworks: React, React Native, Spring Boot, Node.js, Flask, Firebase

Machine Learning: NumPy, Pandas, scikit-learn, TensorFlow

Databases: MySQL, MongoDB, SQLite

Tools & Cloud: Git, JIRA, Postman, Docker, AWS, GCP, CI/CD