

SANJEEV KUSHAL PENDEKANTI

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Education

Northeastern University

Master of Science in Computer Science

Sep. 2024 – Dec. 2026

Boston, MA

Manipal Institute of Technology

Bachelor of Technology in Information Technology

Oct. 2020 – May 2024

Manipal, India

Experience

Burnes Center for Social Change (InnovateUS)

Generative AI Engineer Co-op

Jan. 2026 – Present

Boston, MA

- Building generative AI tools for InnovateUS, a national learning platform serving 100,000+ public-sector professionals across U.S. government agencies.
- Designing LLM-driven workflows that provide contextual guidance across problem definition, solution design, implementation, and evaluation.

99 Yards

Software Engineer Intern

May 2025 – Aug. 2025

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.

Manipal Institute of Technology

Undergraduate Research Assistant

Aug. 2023 – May 2024

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

Software Engineer Intern

Jun. 2023 – Aug. 2023

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.

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