

Vyom Yadav

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Objective

Looking for a Software Engineer position where I can leverage 3 years of full stack development experience building scalable web applications and my academic training in Computer Engineering at NYU to contribute to innovative, high-impact software solutions.

Education

New York University - New York, NY

Master of Science: Computer Engineering | May 2025 | GPA: 3.7/4.0

Manipal University Jaipur – Jaipur, India

Bachelor of Technology in Information Technology | Apr 2020 | GPA: 8.59/10

Relevant Coursework

Data Structures and Algorithms, Software Engineering I, Real Time Embedded Systems, Computer Systems Architecture, Machine Learning, Deep Learning, Applied Matrix Theory, Digital Signal Processing, VLSI, Operating Systems, DBMS, The Strategist.

Skills

- Programming Languages: Java, Python, JavaScript, TypeScript, PHP
- Databases: MySQL, PostgreSQL, MongoDB, GraphQL
- ReactJS, NextJS, EmberJS, BackboneJS, Spring Boot, Django
- AWS, GCP, Azure
- HTML, CSS, NodeJS, SOAP, Swagger, Restful APIs
- Testing & QA: Selenium, JUnit, Cypress
- CNN, TensorFlow, PyTorch, Keras, Scikit-learn
- DevOps & Tools: Docker, Kubernetes, Jenkins, GitLab CI
- Integrations & Utilities: RabbitMQ, Ngrok, Radix

Experience

Tiny Archives - New York, NY

Computer Science Engineer Intern | Sept 2024 - Dec 2024

- Enhanced application performance and UX by designing optimized, mobile-responsive UI components; contributed to a **25% improvement in page load time** and accessibility compliance across devices.
- Developed and deployed a robust backend using Node.js and AWS (EC2, Lambda, S3), reducing application downtime by **~40%** during peak usage.
- Integrated secure payment processing with Stripe for web and mobile platforms, supporting **1000+ active transactions/month** with 0 reported security issues.
- Contributed to real-time data ingestion and processing workflows for the AI Copilot, improving AI responsiveness and aiding product launch readiness.

Talview (AIWF Technologies Private Limited) – Bengaluru, India

Full Stack Developer | Apr 2020 – Jun 2023

- Engineered responsive and engaging UIs using React and Next.js, leading to a **~20% reduction** in bounce rates and increased user engagement across platforms.
- Led full-stack development of a scalable event management platform (**10,000+ concurrent users**) with a Node.js backend, real-time updates, and biometric authentication (facial/audio recognition), significantly reducing fraudulent access.
- Modernized backend systems by migrating REST APIs to GraphQL and integrating Zipkin for distributed tracing, resulting in **~35% faster** frontend data loads and **50% quicker** incident diagnosis.
- Strengthened development workflows by building Cypress test suites and implementing CI/CD pipelines via GitLab CI, reducing deployment failures and accelerating release cycles.

Proxix Infotech Pvt Ltd – Lucknow, India

Summer Computer Science Intern | May 2019 to July 2019

- Led migration of a legacy PHP codebase from v2.0 to v3.0, improving code maintainability and reducing runtime errors by **60%**.
- Implemented new backend logic modules that resulted in **15% faster load times** and improved developer onboarding through updated documentation.

Projects

Candidate Screening Platform - NodeJS, Solr, NextJS, OpenAI, MySQL

- Developed AI recruitment platform using OpenAI and Solr, reaching **~90%** match accuracy and reducing screening time by **70%**.
- Integrated MySQL for structured data storage and built a dynamic, recruiter-friendly UI using Next.js, ensuring smooth and efficient user interactions.

Expense Tracker Web Application - Python, Django, ReactJS, MySQL

- Built full-stack budgeting tool with real-time tracking, visual analytics, and alerts to help users manage spending.
- Implemented secure multi-user authentication and persistent storage, achieving **99.9%** uptime in deployment testing.

AI-Driven Chatbot and Dynamic Form Generator - MySQL, ReactJS, NodeJS

- Built OpenAI-powered chatbot to generate personalized CVs and dynamic forms with adaptive, user-driven logic.
- Boosted form completion rates by **~40%** by implementing real-time suggestions and storing adaptive workflows in a MySQL backend.

Inventory Management System - PostgreSQL, React, NodeJS, HTML, CSS

- Built a cloud-based inventory platform for small retailers to manage and broadcast real-time stock, with integrated product search and low-stock alerts.
- Reduced tracking errors by **50%** and improved customer access to live inventory through automated updates and intelligent alerting features.

Waste Detection using Image Training – Python, TensorFlow, OpenCV, ResNet50

- Built smart waste detection with CCTV footage, leveraging ResNet and OpenCV to classify waste at **92%** accuracy on **5,000+** images.
- Optimized for low-resolution environments, making it suitable for smart city applications and real-time urban waste monitoring.

Parkinson's Tremor Detection System – C/C++, Embedded C, STM32, Gyroscope, LCD, Python

- Designed tremor detection on STM32 to detect **3–6 Hz** tremors linked to Parkinson's, with real-time frequency and intensity display.
- Enabled post-capture analysis by pairing the system with Python-based tools for data plotting and trend visualization.

Research: A Regularized Volumetric ConvNet for Alzheimer's Detection -

- Published in *Cogent Engineering* (2024) | [Read here](#)
- Developed a deep learning model using MRI data (MIRIAD) achieving **97%** classification accuracy.

Research: Paper on Use of Programming Languages in the real world -

- Presented at SPEEDS-2018 Seminar, Lucknow – Discussed factors influencing programming language selection across industries.