

# Harsh Tiwari

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## WORK EXPERIENCE

### Full Stack Developer

### CASTLER

2021 – Present

- Developed full-stack applications in a MERN (MongoDB, Express.js, React, Node.js) environment.
- Optimized MongoDB databases, resulting in a 70% reduction in query response time.
- Migrated the front end from Angular to ReactJS with TypeScript, improving user experience and reducing maintenance effort.
- Integrated YES and RBL bank APIs, enhancing financial services within the application.
- Investigated and fixed security vulnerabilities, including CORS, JWT algorithm weaknesses, and missing security headers.
- Achieved 99.9% uptime for critical systems through robust error handling and monitoring.

### Machine Learning Intern

### WIKILIMO

June 2020 – September 2021

- Developed and trained machine learning models for weather forecasting and anomaly prediction.
- Improved weather forecasting accuracy by 79% through the implementation of deep learning models (CNNs and LSTMs).
- Reduced data preprocessing time by 30% through automation, allowing for faster model deployment.
- Collaborated with cross-functional teams to integrate machine learning models, enabling real-time predictions.
- Generated daily weather anomaly reports, providing insights for decision-makers.

### Web Developer

### Lakshat

2018 – 2019

- Designed and developed custom websites for clients using WordPress, Node.js, HTML, CSS, and JavaScript.
- Improved website load times by 20% through performance optimization techniques.
- Achieved a 98% client satisfaction rate based on feedback and project delivery.
- Implemented responsive design, resulting in a 25% increase in mobile traffic.

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## EDUCATION & COURSEWORK

- **Amity University:** B.Tech in Computer Science – August 2017 - May 2021
- **Deep Learning Specialization:** Neural Networks, LSTM, CNN implementation in Python, practical use in TensorFlow and PyTorch.
- **Algorithm and Data Structure Specialization:** Implementation in C.

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## PROJECTS

### DEEP LEARNING TEXT READER

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- A deep learning system to generate text from images. It uses an Encoder-Decoder network with an attention mechanism. The features have been extracted from Convolutional layers and used to generate text from images using LSTM decoder layers.

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## HONORS/AWARDS

- Won the internal college Hackathon for Smart Driving Assistance.
- Winner of Map My India hackathon as a team leader.
- Won Internal College Chatbot Hackathon.
- Won Best App Design and Implementation award.

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## SKILLS

- **Programming (Proficient):** Python • Rust • HTML/CSS/JavaScript/JQuery • TypeScript
- **Programming (Familiar):** BASH • GoLang • Java • MySQL • Postgres • Vite • C++
- **Framework:** React Js • Angular • Node Js • Mocha, Chai • PyTorch • Nest Js • TensorFlow • Next Js
- **Technologies:** Frontend Development (Angular, ReactJs) • Backend Development (Node Js) • MongoDB • SQL • Deep Learning • Android Development (Flutter)
- **Tools:** Linux • Terminal • Git • GitHub • Code • JupyterLab • Android Studio • Vim