

JAHID HASAN

SOFTWARE ENGINEER - FULL STACK | CNN

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Software Engineer with experience in full-stack web development and deep learning, including Convolutional Neural Networks (CNNs). Proficient in building scalable web applications, integrating machine learning models, and developing end-to-end software solutions using modern programming languages, frameworks, and tools.

TECHNICAL SKILLS

Language: Python, JavaScript

Development: React.js, Node.js, Express.js

Database: MongoDB, MySQL, PostgreSQL

Cloud & DevOps: Aws, Linux

Software Development: Object-Oriented Programming (OOP), RESTful API Design

Problem Solving & Algorithms: Data Structures, Debugging, Code Optimization

Libraries & Tools: PyTorch, Git, Jira

PROFESSIONAL EXPERIENCE

Data Science & Big Data Intern

April 25

Internship

Chengdu SunCaper Data Co. Ltd, Chengdu Sichuan, China

NYC Taxi Management using Python(PySpark, Pandas, NumPy, Jira) and SQL

- Engineered an Ai-Powered Recommendation system using Chatgpt API
- Conducted Large-Scale data analysis on NYC Taxi open Dataset using Python(Pandas, Pyspark, Numpy) and SQL
- Developed an interactive analytics dashboard with React, D3.js, and Framer Motion.

EDUCATION

Sichuan University

Sep 22 - June 26

Undergraduate Student

Major in Software Engineering

PROJECTS

Floppy Bird RL

Oct/25-Dec/25

Floppy Bird RL – Built a Deep Reinforcement Learning (DQN) agent in Python (PyTorch, Pygame) to train an AI agent for Flappy Bird using reward-based learning.

Blockchain Voting System (Full Stack Project)

May/25-June/25

Developed a blockchain-based voting system using React.js and Tailwind CSS for the frontend, and TypeScript with Prisma ORM for the backend, featuring role-based authentication, admin dashboard, candidate management, real-time voting analytics, and W3C-compliant UI.

Pitch Pilot AI (Ongoing)

Developed an AI-powered interview and presentation coaching platform using FastAPI, React, TypeScript, OpenCV, and faster-whisper. mplemented speech transcription, video analysis, performance feedback, authentication, dashboards, reports, automated testing, and Docker deployment.

Thesis: Forgery Detection in Images Using CNN-Based Models

Nov/25-June/26

Building a CNN-based model (ResNet50) to classify real vs tampered images using the CASIA 2.0 dataset.

Training and evaluating the model in Google Colab using PyTorch.

Working toward developing a tool to detect digital image forgery with high accuracy.