

Ravi Sheoran

Bangalore

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Summary

Software Engineer with a track record of successfully solving critical business problems. Proficient in developing scalable and efficient software using modern technologies. A dedicated problem solver with a focus on delivering high-quality products aligned with user needs and business goals.

Education

Indian Institute of Technology Kharagpur

WB, India

Integrated MSc (BSc + MSc) in Physics

July 2014 - May 2020

- Recipient of Innovation in Science Pursuit for Inspired Research (INSPIRE) Scholarship, 2014 by the Govt. of India
- **Courses:** Design and Analysis of Algorithms, Programming and Data Structures, Computational Physics, Probability & Statistics

Work Experience

Honeywell Technology Solutions Lab

Bangalore, India

Software Engineer II

Sept 2020 - Present

- Collaborated with cross-functional teams to gather and translate requirements into software solutions.
- Developed scalable Back-end services and RESTful APIs to show recording metrics from **100k+** cameras across **50+** sites.
- Built an efficient Event Sync Service, a robust **.NET service**, that improved the number of analytic events supported by **~40%**.
- Designed & built Rest APIs & Backend services to enable remote software upgrades for user workstations, resulting in **~60%** time saved.
- Designed and optimized relational database schema using SQL and ensured data integrity for **millions** of records.
- Conducted code reviews, focusing on improving maintainability, identified bugs, and implemented fixes to enhance software quality.
- Improved software quality, by unit testing, achieving **80% code coverage** and reducing post-deployment issues by **27%**.
- Worked in an Agile environment, participating in sprint planning, daily stand-ups, and retrospectives.
- **Technical Skills:** .NET Core, .NET Framework, EntityFramework, SQL Server, Javascript, ReactJS, Scripting, Git, Kubernetes, MS Azure.

Dineout (Times Internet)

Noida, India

Data Science Intern

May 2019 - July 2019

- Constructed a Python-based ML Model predicting premium membership renewal probability with over **90% accuracy**.
- Conducted feature engineering and created models with Logistic Regression, GBMs, and SVMs.
- Improved f1-score from **0.23 to 0.78** through feature preprocessing techniques and strategic feature incorporation.

Personal Projects

WebRTC ChatApp

Bangalore, India

<https://github.com/SheoranRavi/chatapp>

Nov 2022 - Feb 2022

- Wrote a WebSocket Server in NodeJs for handling client connections and sending responses to the intended target.
- Developed a scalable client application using React JS, following best practices for modular component design.
- Implemented ExpressJS REST APIs for login and signup requests, achieving an average response time of **under 100ms**.
- Engineered a microservice for storing messages in a MySQL Database, achieving **99.9%** data reliability and efficient query execution.
- Integrated WebRTC for establishing seamless peer-to-peer connections for Video Calling with **low latency** and **high video quality**.

Digitalized Medical Prescription

India

Java, Eclipse

Jan 2020 - March 2020

- Built an application to digitalize handwritten prescriptions and correct any form of grammatical error in the prescription
- The app was made using OpenCV for preprocessing to remove noise & Microsoft Azure Vision API for text recognition
- Conceptualized an algorithm to correct the detected word using a medical dictionary that maps medicines to symptoms

Image Recognition using CNNs

India

Python, PyTorch

Dec 2018 - Feb 2019

- Constructed CNNs with PyTorch to classify CIFAR-10 images into ten different categories.
- Implemented BatchNorm, Dropout, L2 Regularization, and Data Augmentation to increase model accuracy.
- Optimized Neural Network architecture through experimentation, resulting in a six-layer convolutional model.
- The best Convolutional Neural Network achieved a prediction accuracy of 87% on the test set in 100 epochs

Skills

Programming C# (ASP.NET, .NET Core, .NET MVC, EntityFramework), Javascript, ReactJS, Python, Java, SQL, HTML/CSS, MS Azure

Miscellaneous Linux OS, Object Oriented Programming, Design Patterns, Problem-Solving, Agile Development

Developer Tools Cloud(Azure), Git, Docker, Kubernetes, Postman, CI-CD tools, VS Code, Visual Studio