

Ravi Praveen Gali

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Education

Stony Brook University

Master of Science in Computer Science, GPA: 3.67/4.0

Aug 2023 – May 2025

Stony Brook, NY, USA

- **Coursework:** Computer Vision, Machine Learning, Data Visualization, Network Security and Discrete Mathematics

BML Munjal University

Bachelor of Technology in Computer Science and Engineering, GPA: 3.74/4.0

Jul 2019 – Jun 2023

Gurgaon, HR, India

- **Coursework:** Machine Learning, Data Structures and Algorithms, Database Management and Object Oriented Programming

Experience

Graduate Teaching Assistant

Stony Brook University, Department of Computer Science

Aug 2023 – Dec 2023

Stony Brook, NY, USA

- Under the guidance of Dr. Kevin McDonnell, facilitated student proficiency in computer science with Python-based weekly lab sessions, hands-on exercises, and homework support. **Assessed** assignments and midterms for a class composed of **30** students.

Software Engineering Intern

Yubi (Unicorn Startup), Supply Chain Finance Team

Oct 2022 – Apr 2023

Chennai, TN, India

- Played a key role in the **Integrations** Team within the **Supply Chain Finance** (fintech) team as a back-end developer, specializing in seamlessly integrating **4** different client APIs end-to-end with SCF's API using Ruby on Rails, PostgreSQL, Pub-Sub and Redis.
- Increased productivity with Forest Admin **Automation**, achieving **3x** faster results. **Streamlined** manual ticket processes and client data management, leveraging the flexibility of integrating Ruby on Rails with Forest Admin.
- Ensured **security** and data integrity by implementing robust encryption and decryption functionalities for **10** bank API calls, significantly enhancing the overall security measures of the system.
- Utilized Redis to streamline and **optimize** database calls, achieving a **7%** improvement in overall system efficiency and a **5%** enhancement in response times.
- Completed **300 plus** tickets in six months, positioning the SCF team as a top performer in innovative solution delivery, by actively contributing to the development of Supply Chain Finance logic. Additionally, integrated **2** new banks into SCF.

Backend Engineer Intern

Sabudh Foundation (Remote), Depression Detection Online

Apr 2022 – Oct 2022

Mohali, PB, India

- Developed an online Depression Detection platform using Python, Flask framework, Flask Blueprints library, OpenCV, NumPy, PostgreSQL, and Pycogp2 library.
- Designed **20 database** tables, including schema for authentication, authorization, patient details, hospitals, doctors, and appointments, ensuring a robust foundation for the project.
- Orchestrated the creation of a user **API** tailored for doctors, patients, administrators, and other user types, ensuring a customized experience for over **3** user categories.
- Streamlined and integrated a **machine learning** algorithm into the back-end, revolutionizing the platform's diagnostic capabilities by analyzing patient videos for signs of depression, resulting in more than **90%** accuracy and enhanced treatment outcomes.

Technical Skills

Languages: Python, C++, C, Java, JavaScript, Ruby, Bash, HTML, CSS, SQL

Libraries & Frameworks: Django, Flask, PyTorch, Node.js, ReactJS, D3JS, Ruby on Rails, REST API.

Developer Tools: Git, Docker, AWS, Visual Studio, Postman, Android Studio, MySQL, PostgreSQL, MongoDB.

Skills: Web Development, Android Development, OOPS, Machine Learning, API Development, Database Designer.

Projects

Link Platform | Python, Django, ReactJS, PostgreSQL, Postman, Heroku

Jul 2022 – Aug 2022

- Collaborated as a team player to develop "Link", a comprehensive online **incubation** hub for startups and entrepreneurs, which won **1st** Place in a national hackathon (**SIH**) organized by the Indian Government. This one-stop platform effortlessly connects users with investors, mentors, and media support, while also facilitating idea exchange with organizations.

VidStream | ReactJS, NodeJS, RTMP Server, OBS Studio

Jun 2022 – Jul 2022

- Designed Vidstream, a cutting-edge **real-time** video streaming service implemented in React. This innovative platform can be utilized within private networks or made accessible to the internet. Integrated OBS Studio as the tool for seamless real-time screen streaming.

Movie Recommender | Python, Flask, Bert, Neo4j, Cipher, Vanilla JS, IMDB Dataset

Oct 2021 – Feb 2022

- **Engineered** a highly accurate full-stack Movie Recommender System that refines suggestions based on movie plots, genres, and content creators, providing over **80%** accurate **personalized** recommendations for users seeking films similar to the input movie.

OpenSource Plugins | Python, Bpy Lib, Blender API, Blender Software

Dec 2020 – Jan 2021

- Developed **2** Blender Software **plugins**: "PBR Perfect" streamlines PBR material creation by automatically mapping texture maps, while "Gshadow" provides a workaround for creating shadows for grease pencil objects.

check my portfolio here <https://grpnpraveen.github.io/portfolio/>