

VINAY S H

Bengaluru, Karnataka, India

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Summary

Computer Science and Engineering graduate with hands-on experience in **full-stack web development**. Proficient in **Java, Python, JavaScript, React.js, Node.js, Django, MySQL, HTML, CSS, and Bootstrap**. Experienced in building **responsive web applications**, developing **REST APIs**, integrating front-end and back-end systems, and managing **relational databases**. Strong foundation in **object-oriented programming (OOP)**, **data structures and algorithms**, **debugging**, and **version control using Git**.

Education

SJB Institute of Technology

2021 – 2025

Bachelor of Engineering in Computer Science and Engineering, (CGPA - 7.45)

Bengaluru, Karnataka

Kumadvathi Science and Commerce PU College

2018 – 2020

Pre-University Course (PUC) (Percentage - 83.5%)

Shikaripura, Karnataka

Internship Experience - Websmartindia

- **Software Development Intern:** Developed and maintained web application features using **Python** and **Django**, applying core concepts of backend development, debugging, and software engineering practices.
- **Full-Stack Development:** Built responsive user interfaces using **HTML, CSS, Bootstrap, and JavaScript**, and implemented server-side logic with **Django** integrated with **MySQL** databases.
- **Healthcare Management Project:** Contributed to the design and development of a healthcare management system, implementing database models, form handling, CRUD operations, and working with **REST APIs**, backend routing, database integration, and debugging application issues. Participated in Agile/Scrum-based software development lifecycle activities.
- **Tools & Practices:** Used **Git** and **GitHub** for version control and followed basic **SDLC** practices including testing, debugging, feature enhancement, and collaborative development.

Technical Skills

Programming Languages: Java, Python, JavaScript(ES6+), C#, C, PHP

Frontend Technologies: React.js, HTML5, CSS3, Bootstrap, Tailwind CSS, Responsive Web Design

Backend Technologies: Node.js, Express.js, Django, Flask, REST APIs, JWT Authentication

Databases: MySQL, Oracle Database, SQL, Relational Database Management Systems (RDBMS)

Core Concepts: Object-Oriented Programming (OOP), Data Structures and Algorithms, Operating Systems, Computer Networks, CRUD Operations, Debugging, Testing, Agile Methodologies, SDLC

Tools & Platforms: Git, GitHub, Postman, VS Code, IntelliJ IDEA, PyCharm, Jupyter Notebook, NPM, Visual Studio

Projects

Real-Time Multiplayer Chess Platform

June 2026

React, TypeScript, Node.js, Express.js, PostgreSQL, Prisma, WebSockets | GitHub

- Built a **full-stack real-time multiplayer** chess platform using **React, TypeScript, Node.js, Express.js**, and **WebSockets**, enabling live gameplay and seamless player interactions.
- Implemented **server-side move validation**, automated matchmaking, synchronized game timers, private game rooms, and real-time chat to ensure consistent and interactive gameplay experiences.
- Developed secure authentication using **JWT** and **bcrypt**, integrated a dynamic **Elo rating system**, and managed persistent game data using **PostgreSQL** and **Prisma ORM**.

Book Recommendation System

Aug 2025

Python, Pandas, Scikit-learn, NumPy, Matplotlib | GitHub

- Built a **machine learning-based** book recommendation system using **collaborative filtering**, popularity-based, and hybrid models to generate personalized recommendations.
- Performed **data preprocessing**, feature engineering, and similarity analysis using **Pandas** and **NumPy** on user-item interaction datasets.
- Evaluated model performance using **Scikit-learn** and visualized recommendation insights with **Matplotlib** to improve prediction accuracy.

Certifications

- **Data Science Using Python**, TechnoFly Solutions
- **Node.js Course and Certification**, freeCodeCamp