SHREERANJITHA RAVIPRAKASH

SOFTWARE DEVELOPER

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SUMMARY

Results-driven Software Developer with hands-on experience in building scalable web applications, ERP solutions, and data automation pipelines. Proven ability to develop full-stack systems using Python, Java, React, and SAP ABAP. Skilled in optimising databases and contributing to research-backed platforms in academic and industry settings. Passionate about solving complex problems, continuous learning, and delivering user-focused solutions.

EDUCATION

University of Texas at Arlington Aug 2023 - May 2025

Master of Science in Computer Science (3.9/4)

Visvesvaraya Technological University Aug 2017 - Aug 2021

Bachelor of Engineering in Computer Science (3.74/4)

TECHNICAL SKILLS

- **Programming Languages:** Python, C, C++, Java, JavaScript, SQL, PHP, C#, SAP ABAP
- **Web Development:** React, HTML, CSS, Bootstrap, Node.js, Django
- **Databases:** MySQL, SQL Server, SAP HANA, Firebase
- **Cloud Platforms:** Basic knowledge of AWS
- **Tools & Frameworks:** Git, GitHub, Docker, Selenium, Eclipse, PyCharm, RStudio, Android Studio, VS Code, Jupyter, XAMPP, SAP Logon, Power BI, Docker
- **Operating Systems:** macOS, Windows
- **Other Skills:** Data analysis with R, SAP Ariba, SAP S4/HANA, RPA Scripting, Application Design, Development & Deployment

PROFESSIONAL EXPERIENCE

Software Engineer **Aug 2021 - Aug 2023**

Accenture

Bengaluru, India

- Created ERP solutions using SAP ABAP for Upfield by developing report programs, module pool programs, and ALVs for S/4 HANA systems, including Trade Promotion Management, Transport Management, SAP Ariba, and Product Lifecycle Management.
- Built and maintained databases, schemas, tables, views, and indexes in SAP HANA and MySQL, demonstrating strong SQL proficiency for handling large data volumes and writing optimized queries.
- Managed daily monitoring of Batch Jobs and IDocs, reported failures promptly, and maintained the Power BI dashboard to visualize key process metrics and operational health.
- Handled incident tickets using ServiceNow, performing deep debugging of both SAP standard and custom code, identifying root causes, and delivering robust solutions.
- Contributed to new feature development and system enhancements by writing modular and scalable ABAP code, and applying SAP Notes to implement official fixes and improvements.
- Gained experience in RPA scripting to support process automation and improve monitoring workflows.
- Received formal training in Java, contributing Java code to assist in cross-functional tasks and integrations as needed.

Graduate Research Assistant **July 2024 – May 2025**

University of Texas at Arlington

Arlington, Texas, United States

- Automated data extraction from various endpoints without physical downloads using Python's requests package, enabling efficient and scalable data retrieval from multiple resources.
- Worked with SQLite and Microsoft Access to store, query, and manage datasets related to soil carbon content, ensuring accurate and organized data pipelines.
- Assisted in the development of a Django-based web platform to visualize carbon data by county through interactive maps, improving data accessibility for users.
- Wrote and optimized queries to filter, sort, and serve the necessary data for frontend visualization, supporting a seamless and responsive user experience.
- Contributed to the **USDA-funded project** focused on increasing public access to soil carbon insights and helping researchers make informed decisions.

PROJECTS

Artificial Intelligent Assistant - JARP | Python, TensorFlow

- The main aim of the project was to create an assistant which could also be used by people who were visually impaired, mute or with impaired hearing. The assistant, named "JARP", was voice-activated at the same time processed images to take commands from the user. The user could ask the assistant to do tasks such as setting a reminder or opening YouTube to play a specific video, or they could show hand gestures in front of the camera to open a calculator or minimize computer speaker volume.

College Management System (CMS) | MySQL, Xamp, HTML, CSS, PHP, JavaScript

- The project was designed to build an efficient CMS which allowed the professors to add attendance, notifications, and subject scores for the students to view. The project used MySQL for the backend database which included creating the database, writing queries, assertions, triggers, and stored procedures. The front end was built using CSS, HTML and PHP to make the page interactive.

Video Recommendation System | MySQL, Xamp

- The project was designed for web streaming services to improve their customer numbers. The project was done from the organization's point of view; thus, I got to set the business goals and write a clear functional document. After creating the ER diagram, I chose a relational database model for this project. After normalization, I used SQL to write the queries for the business goals.

Covid detection using X-Ray of patients | Python, Tensorflow, Machine Learning,Keras

- In this project, I delved into the world of image detection using TensorFlow. I gathered a fascinating mix of chest X-rays from Kaggle, featuring everything from normal scans to those showing COVID-19 and pneumonia cases. To ensure our model doesn't get too fixed on the specifics, I added a touch of creativity with data augmentation techniques. Now, I'm excited about taking things up a notch by refining our dataset using DenseNet-121. It's like giving our model a new set of lenses to see the world even more clearly. I love the idea of constantly improving and learning, and this project is a perfect example of that.

Learnify – Online Education Platform | React, Firebase, MUX, UploadThing

- Built a full-featured education platform inspired by Coursera that allows users to log in, browse courses, and track progress through a personalized dashboard. The platform supports both free and paid courses, with the first chapter available for free and gated access for the remaining content upon payment. As a developer, I focused on integrating **MUX** and **UploadThing** for seamless video upload and playback, implemented user authentication, and managed backend services using **Firebase** for real-time data storage and queries. Instructors can add new courses, upload videos, set course pricing, and manage content through an intuitive interface. The platform offers a clean, responsive UI with a smooth user experience built using **React** and **Tailwind CSS**.

Bookstore App | Android Studio, Java, Firebase

- Developed a mobile bookstore application that allows users to **log in, browse, search, and purchase books**, with full support for **cart, wishlist, and return functionality**. Users can also view and register for book-related events through the app. The admin side of the app enables adding/removing books and managing events, including approving event participation. My contributions focused on implementing features for **adding/removing items and events**, managing the **shopping cart and wishlist system**, and ensuring smooth user interactions with real-time updates via **Firebase**.

SuperChat | React, Firebase

- Built a real-time chat app with Google Sign-In and Firestore syncing; features include secure authentication, responsive UI, and auto-clearing messages for enhanced user experience.

Baby Name Suggestion App | React, TailwindCSS

- Developed an interactive web app to suggest gender-specific baby names based on user input, featuring clean UI, real-time form validation, and fun name generation logic.