

Sudeepthi Rebbalapalli

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PROFESSIONAL SUMMARY

Computer Science graduate with nearly 3 years of experience in software development and systems engineering. Skilled in building robust applications, optimizing processes, and writing high-quality code.

EXPERIENCE

Senior Consultant (Volunteer)

Jun 2025 – Present

Heartland Community Network | Remote

- Assist small businesses across Indiana in identifying needs and adopting scalable technology solutions.
- Support end-to-end projects involving **database management**, **ETL workflows**, **cloud integration**, and **full-stack development** to deliver business value.

Software Engineer (Associate Consultant / Senior Analyst)

Jun 2021 – Jul 2023

Capgemini Technology Services India Ltd. | Bangalore, India

- Improved the Master Data Management (MDM) system for a global fast-food chain by resolving defects, optimizing performance, and implementing feature enhancements using **SQL**, **XSLT**, and **JavaScript**.
- Automated workflows with **shell scripts**, tripling data processing speed and reducing manual effort.
- Resolved 20+ high-impact **cybersecurity** vulnerabilities, improving application security and resilience.
- Led testing efforts across **unit**, **integration**, **SIT**, and **UAT testing**, ensuring smooth production rollouts.
- Mentored 10+ team members in **Java**, **SQL**, and **JavaScript**, boosting team productivity and onboarding.
- Led technical discussions in scrums and client meetings; collaborated with cross-functional teams to improve project delivery time by 20%.

Big Data Intern

Jan 2021 – May 2021

Capgemini Technology Services India Ltd. | Pune, India

- Optimized data storage and processing for 1TB+ dataset using **Hadoop (HDFS, MapReduce)**, **Spark**, and **Sqoop**, reducing runtimes by up to 50%.
- Built scalable data pipelines for an Indian food delivery company by developing **Java** packages, implementing **Talend ETL** jobs, writing **Hive** queries, and creating **Bash** scripts.

Data Science Intern

May 2020 – Jul 2020

Cyient Ltd. | Hyderabad, India

- Synthesized insights from 20+ **deep learning** research papers on fake news detection, identifying key model gaps.
- Developed a **Keras-based** neural network for fake news detection (85% accuracy), using **NLTK** for preprocessing, **Scikit-Learn** for feature selection, and **Pandas**, **NumPy**, **Matplotlib** for data processing and visualization.

EDUCATION

Master of Science in Computer Science

Aug 2023 – May 2025

Indiana University Bloomington | Bloomington, Indiana | GPA: 3.84

Bachelor of Technology in Computer Science Engineering

Jul 2017 – Jun 2021

Vellore Institute of Technology | Vellore, India | GPA: 9.07/10.0

PROJECTS

Automated Acquire Game | Python, Pytest, JSON, Game Trees

- Developed an autonomous agent to play the Acquire game by simulating game moves using game-tree search, object-oriented programming, and custom strategy evaluation algorithms, optimizing decision-making.
- Created a reusable testing suite with JSON-based validations and Pytest for high coverage and reliability.

Android Applications | Kotlin, Google Firebase, Android Studio

- Built multiple Android apps, including a calculator, a Firebase-authenticated notes app, and a post-creation tool with image uploads to Firebase/GitHub to enhance user engagement and functionality.
- Designed interactive UIs with animations and touch features, such as a pizza ordering tool and a box drawing app.

Network Protocol Implementation | C

- Implemented HTTP client/server, SMTP agent, and custom transport protocols (RUDP, Stop-and-Wait, Go-Back-N) in C, gaining hands-on experience with socket programming, data transmission, and error control.

Global Development Index Analysis | Python, GCP (BigQuery, Cloud Functions, Cloud Shell), Plotly

- Built a scalable data pipeline on GCP to automate ingestion and transformation of global development indices; visualized geopolitical impacts with Plotly, reducing manual effort and improving data reliability.

Early-Onset Parkinson's Detection from Speech Data | Python, Deep Learning, Speech Processing

- Collaborated with an Indian hospital to classify early-onset Parkinson's using patient speech data; developed on-site analysis prototypes prioritizing clinical usability and data privacy.

AWS Machine Learning for Predictive Maintenance | AWS SageMaker, S3, Data Wrangler, Python

- Developed a predictive maintenance system within AWS, using SageMaker for model training and deployment, S3 for data storage, and Data Wrangler for data processing. Implemented ML models (Logistic Regression, Naive Bayes, Random Forest) to predict machine failures and reduce downtime.

CERTIFICATIONS

AWS Certified Cloud Practitioner (Amazon Web Services)

Jul 2025

ADDITIONAL SKILLS

• C	• C++	• Scala	• Swift	• R	• HTML	• CSS
• JavaScript	• Node.js	• Express	• React	• MongoDB	• MySQL	• Postgres
• GCP	• AWS	• Docker	• Linux	• Git	• Jira	• Confluence
• Tableau	• Jupyter Notebook	• Android Studio	• Xcode			

ADDITIONAL WORK EXPERIENCE

Part-Time Proctor, Front Desk Operations

Apr 2024 – May 2025

Accessible Educational Services, Indiana University | Bloomington, Indiana

- Coordinate exam logistics, ensuring academic integrity and accessibility compliance.
- Manage scheduling, communication, and front-desk operations to support student and staff needs.