MANITH SHASHIDHAR

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PROFESSIONAL SUMMARY

Technically curious and enthusiastic software engineer with more than 2 years of professional experience specializing in software development, data engineering, and systems integration. Proficient in modern programming languages, database management, and robust frameworks, adept at developing scalable and efficient software solutions. Passionate about continuously exploring innovative technologies and utilizing data-driven approaches to optimize system performance and operational efficiency.

EDUCATION

Master's in **Business Analytics and Information Management**   *January 2024-May 2025*
University of Delaware; GPA: 4.0 /4.0;
Bachelor of Engineering in **Computer Science**   *June 2018-July 2022*
Visvesvaraya Technological University;

WORK EXPERIENCE

Software Engineer Intern, Alfred Lerner College of Business & Economics   *January 2025-Present*

- Architected a full-stack scheduling system using JavaScript, Node.js, Express.js and PostgreSQL that manages 50+ course offerings through RESTful APIs, incorporating data validation, optimized indexing, and versioned deployments for seamless updates.
- Implemented an advanced scheduling algorithm using Python that enforces complex cross-program dependencies, automatically prioritizes core courses, and reduced scheduling conflicts by 45% while providing real-time anomaly detection.
- Created a responsive React/TypeScript frontend with secure API integration for schedule generation and conflict resolution, resulting in 65% improved planning efficiency and providing administrators with real-time cross-departmental oversight.

Senior Engineer – Development, Fidelity Information Services (FIS), Bengaluru   *June 2022- January 2024*

- Developed critical enhancements to the Advanced Commercial Banking System (ACBS) using LANSA and C#, optimizing 15+ commercial lending workflow projects while ensuring strict compliance with U.S. banking regulations and global financial standards.
- Orchestrated complex system integration projects by refining interface implementations and standardizing data transfer protocols, achieving 20% increased throughput and ensuring zero-loss migration between legacy and modern banking platforms.
- Enhanced compounding and financial calculation engines to support innovative financial instruments, minimizing computational errors by implementing automated validation routines and ensuring regulatory compliance for multi-currency transactions across global markets.
- Spearheaded end-to-end UAT testing and issues resolution during major system upgrades, establishing automated regression testing that increased operational uptime by 15% and substantially reduced post-deployment incidents while facilitating seamless regulatory adaptation.

IT Trainee, **Cognizant, Bengaluru**   *March 2022- June 2022*

- Trained in full-stack development through Cognizant's early engagement program, gaining practical experience in Java programming, SQL, Spring MVC, Spring Boot, and user interface design, completing the program in the top 10% of trainees.
- Collaborated on web application projects and integration initiatives, acquiring hands-on expertise while analyzing 7+ internal problem statements and formulating efficient solutions in Java, SQL, and unit testing, excelling in technical assessments.

Data Science Intern, Exposys Data Labs, Bengaluru   *August 2021- September 2021*

- Analyzed 4 datasets to identify crucial features, such as age, gender, and passenger class, and utilized this information to construct machine learning models, improving classification accuracy and decision-making insights.
- Applied various algorithms including Support Vector Machine, Random Forest, and Logistic Regression, attaining peak accuracy of 80% with Random Forest. Utilized Seaborn and Matplotlib for data visualization, enhancing analytical insights and model predictions.

SKILLS

- Programming Languages: Java, Python, C++, C, Lansa (RDML), C#, R, SAS, JavaScript, TypeScript, Visual Lansa.
- Databases & Data Management: SQL & Relational Databases (MySQL, PostgreSQL, Oracle, SQLite, IBM DB2/AS400).
- Web & Software Frameworks: Node.js, Express.js, React, .NET, Sequelize, RESTful API development, OR-Tools.
- Business Intelligence & Analytics: Tableau, Power BI, Qlik, Alteryx (ETL/Data Prep), Excel (VBA macros).
- Others: Linux, Unix, Git, Postman, Visual Studio, Agile (Scrum), Project Management (JIRA), Test-Driven Development.

PROJECTS

HydroYield: Smart Hydroponic Crop Yield Prediction System   *October 2021- June 2022*

- Created an IoT-integrated web application using Python, Embedded C, and JavaScript to predict crop yields with 85% accuracy using scikit-learn Random Forest algorithms, leveraging real-time sensor data on environmental and soil parameters for predictive analytics.

CryptoForecast: Advanced Bitcoin Price Prediction System   *November 2021- December 2021*

- Programmed a machine learning pipeline using ensemble methods, LSTM networks, and reinforcement learning to predict Bitcoin price movements with 74% directional accuracy, leveraging technical indicators and market regime detection for enhanced investment insights.

AWARDS/VOLUNTEERING

- Awarded two TSStarAwards at FIS for leading successful CLS migrations and complex multi-currency deployments within enterprise banking platforms for Brown Brothers Harriman (BBH) and Texas Capital Bank, including ACBS upgrades and go-lives.
- Served as Vice President and Treasurer of the Lions Club at Bangalore Institute of Technology, leading impactful campus initiatives and community outreach through strategic planning and execution.