

Software Development Engineer (SDE) | Full Stack Developer  
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<https://darshan2610.github.io/Portfolio/>

Experience

Full Stack Developer - Trainee

Alpha Tech, Bengaluru | 11/2022 – 01/2023

- Led development of scalable web apps using MERN stack, improving **performance** through clean architecture.
- Designed and **optimized** RESTful APIs, reducing response time by **80%**.
- Developed user **authentication** using JWT, ensuring secure access for users.
- Built responsive front-end interfaces with **React.js**, improving UX and **reducing** load time.
- Automated deployment tasks using Docker, reducing deployment time by **40%** and ensuring a **98%** on-time delivery rate.
- Troubleshoot and resolved technical issues for internal teams and external clients, ensuring smooth operation and customer satisfaction.

Python Hands-on Intern

Alpha Tech | 01/2022 – 02/2022

- Gained proficiency in Python by completing multiple projects on object-oriented programming, file handling, and basic data analysis, which improved problem-solving speed by **20%**.
- Applied Python's OOP principles to create modular, maintainable code, reducing debugging time by **15%**.

Projects

- **UrbanEye – Issue Reporting Platform**  
<https://urbaneye.onrender.com/>
  - Developed a MERN stack platform with RESTful APIs for real-time issue reporting, utilizing MongoDB for data storage.
  - Integrated geolocation and photo upload with optimized network requests for large media.
  - Implemented JWT authentication for secure data transmission.
  - Deployed with load balancing to ensure scalability and handle high traffic.
- **StockPricePro – LSTM Stock Price Predictor**
  - Designed and trained an LSTM model using TensorFlow/Keras to predict stock prices with a 15% lower RMSE than baseline models.
  - Processed and normalized 10,000+ data points of historical stock data using Pandas and NumPy.
  - Improved model accuracy by 20% via hyperparameter tuning and walk-forward validation.
  - Visualized trends using Matplotlib, enabling accurate tracking of predicted vs. actual prices for investor insights.

Skills

**Languages:** Java, Python, C, JavaScript, HTML, CSS  
**Frameworks/Tools:** React.js, Node.js, Express.js, MongoDB, Docker, PostgreSQL, SQL, NoSQL, Ansible, Jenkins  
**Systems:** Linux/Unix CLI, Git, REST APIs, TCP/IP concepts  
**Cloud Platforms:** Google Cloud Platform (GCP)  
**Cloud Technologies:** Cloud Networking, Load Balancing, App Development Environment, Data Preparation for ML, Infrastructure as a Service (IaaS), Machine Learning, Artificial Intelligence, Networking & Security, Data Warehousing, ETL/ELT Processes  
**CS Fundamentals:** Data Structures, Algorithms, Object-Oriented Design, Operating Systems, Networking  
**Interests:** Distributed Systems, Machine Learning (classification, linear regression modelling, clustering and decision trees), Search Algorithms, Information Retrieval, Data Warehousing, Big Data Technologies  
**Professional Skills:** Strategic Planning, Program Management, Stakeholder Engagement, Cross-functional Collaboration, Data-Driven Decision Making, Training & Facilitation.

Education

Bachelor of Engineering (B.E.) in Computer Science Engineering - Bangalore Institute of Technology - 06/2026

Courses & Certifications

**Courses:** Core Java Programming, Full Stack Web Development.

**Certifications:**

- Core Java Programming – Infosys Springboard
- AWS Cloud Practitioner Essentials – Amazon Web Services
- Web Development – Godric Web Solutions
- - Build a Secure Google Cloud Network
- - Set Up an App Dev Environment on Google Cloud
- - Prepare Data for ML APIs on Google Cloud
- - Implement Load Balancing on Compute Engine
- - Google Cloud Computing Foundations: Infrastructure in Google Cloud
- - Google Cloud Computing Foundations: Data, ML, and AI in Google Cloud
- - Google Cloud Computing Foundations: Networking & Security in Google Cloud
- - Google Cloud Computing Foundations: Cloud Computing Fundamentals