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# TIYASHA GHOSH

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## Objective

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Dedicated and analytical Software Developer with strong proficiency in Full Stack and database management. Skilled in building scalable APIs, optimizing backend performance, and applying data structures and algorithms to solve complex problems. Looking to contribute to high-performance backend systems in a growth-driven tech company.

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## Links

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- **Github:** <https://github.com/Teahope12>
- **Portfolio:** <https://tiyasha-portfolio.vercel.app/>

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## Education

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- **Vellore Institute of Technology, Vellore**  
Masters Of Computer Applications (Pursuing) 2026  
8.57
- **Presidency College, Bengaluru**  
Bachelor of Computer Applications 2023  
SGPA 9.25
- **P I S Vidyapith**  
All India Senior School Certificate Examination(12th) 2019  
73.25%
- **H. S. Memorial School**  
Indian Certificate of Secondary Education (10th) 2017  
79%

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## Skills

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- Frameworks: React.js, Node.js, Angular.js
- Programming Languages: C, C++, Javascript , HTML, CSS, Java, Python, VB. Net
- Data structure
- Databases: MongoDB, SQL
- Dev Tools: Visual Studio Code, Streamlit
- Telecom Tools :Cisco Packet Tracer

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## Projects

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- **Real-time Litter hotspot Mapping and Waste Segregation during natural disasters(Ongoing)**  
Developing a ML model for litter detection and segregation during disasters. Processed large scale datasets with data augmentation, feature extraction and image processing techniques.  
**Technology used:** CNN, Image Processing, Python, Numpy, Pandas, Scikit Learn, Steamlit, Tensorflow
- **Online PG Accommodation Booking System**  
Developed a scalable web application for seamless PG search, booking and management with secure authentication, payment integrated gateways for hassle-free transactions. Enhanced property discovery with advanced filtering.  
**Technology used:** React.js, Node.js, MongoDB, JWT, Stripe, Axios API
- **Churn Management System**  
Developed a ML based predictive analytics system to predict customer churn using structured data analysis and predictive modeling(Random Forest Classifier, XGBoost). Implemented data processing, feature engineering and visualization for actionable insights. Ensured scalability, automation for proactive decision making.  
**Technology used:** Python, Scikit-learn, Pandas, NumPy, Flask API, Twilio API, Matplotlib, Seaborn.

- **Capstone Project Management Application**

Developed a tool for managing and tracking academic and professional capstone projects.

**Technology used:** MySQL, JDBC, Apache Netbeans, Apache Tomcat, JSP, HTML5

- **Leave Management System**

Developed a role based leave management system for approving leave and manage employee details with leave approval workflows and automated email notifications. Used for enhanced HR efficiency with dashboard analytics, leave balance tracking and policy compliance checks.

**Technology used:** Remote SQL Server, VB. Net, Bunifu Framework

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**Interests**

- Diary writing
- Singing

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**Languages**

- English
- Hindi
- Bengali

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**Certifications**

- **Certificate of Completion of Networking Cardinals with Cisco Packet Tracer**  
2024
- **Nvidia Fundamentals Of Deep Learning Workshop**  
2024
- **The Web developer Bootcamp**  
2025
- **Microsoft PL-300 certification using the free Power BI Desktop. Power Query, DAX, M. Helps with DP-600(Udemy)**  
Ongoing
- **AWS Workshop: Empowering Innovation with AWS conducted by Corporate Gurukul**  
2024