

# MOGAN RAM

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## PROFESSIONAL SUMMARY

Software Developer proficient in designing and deploying full-stack and backend solutions using Python, Flask, React.js, Java, Spring Boot, and databases like MySQL and MongoDB. Demonstrated expertise in delivering scalable RESTful APIs and responsive web interfaces, achieving up to 25% performance improvements through optimization and rigorous testing in Agile environments. Passionate about leveraging technical skills and collaborative problem-solving to contribute to innovative IT projects, supported by hands-on project experience and industry-recognized certifications.

## TECHNICAL SKILLS

- **Programming Languages:** Python, JavaScript, Java, SQL, HTML5, CSS3
- **Frameworks & Libraries:** Flask, React.js, Bootstrap, Spring Boot, Javalin, Pandas, NumPy, SciPy, PyMongo, Axios, bcrypt
- **Databases:** MySQL, MongoDB
- **Tools & Platforms:** Git, GitHub, Postman, VS Code, Render, Netlify, Flutter, Google Sheets
- **Concepts:** Full-Stack Development, RESTful APIs, Responsive Web Design, Object-Oriented Programming, Data Structures, Microservices, Unit Testing (JUnit, Mockito), CI/CD, Agile Methodologies, Data Science
- **Soft Skills:** Accountability, Adaptability, Teamwork, Time Management, Analytical Thinking, Effective Communication, Client Negotiation

## LANGUAGES

- English: Professional Proficiency
- Tamil: Native

## EXPERIENCE

### Software Developer (Part-Time) – Kuriyeedu

Feb 2024 – May 2025

- Architected responsive web applications using React.js, HTML5, CSS3, and Bootstrap, and developed robust backend APIs with Python and Flask, integrating MongoDB for client-driven projects.
- Engineered a Flutter-based mobile application, enhancing user experience for 2 client apps, and managed Git-based version control in a 5-person Agile team, delivering 2 feature releases via CI/CD pipelines.
- Increased client social media interactivity by 40% and follower growth by 35% over 3 months through targeted content strategies, while facilitating client demos and negotiating requirements.
- Debugged 5+ technical issues, conducted code reviews, and documented workflows, ensuring high-quality, maintainable code aligned with Software Development Life Cycle (SDLC) standards.

### Software Developer Trainee – Revature PEP

Jan 2025 – Apr 2025

- Mastered Java backend development through 120+ hours of intensive training, focusing on OOP, microservices, Spring Boot, Javalin, MySQL, JUnit, Mockito, and CI/CD in Agile environments.
- Developed a Blog API Service for social media functionalities (post, read, delete) using Spring Boot and Javalin, implementing JWT authentication and optimizing MySQL queries by 25% for performance.
- Achieved 90% code coverage through unit testing, documented APIs with Postman, and deployed via GitHub Actions, collaborating with mentors on weekly assessments and code reviews.
- Excelled in daily assignments and weekly exams, strengthening backend development and analytical problem-solving skills.

### Software Developer Intern – Edunet Foundation (IBM Partnered)

Jun 2024 – Jul 2024

- Developed a real estate price prediction web application using Python, Flask, JavaScript, HTML, CSS, Pandas, NumPy, and SciPy, integrating predictive models via REST APIs, achieving an R2 score of 0.85.
- Cleaned Kaggle 2020 Bengaluru real estate data using Google Sheets, ensuring consistent formats by removing noisy entries, and validated APIs with Postman in a virtual Agile setup.
- Designed responsive UI with Bootstrap, improving accessibility by 15%, and documented workflows for IBM Cloud/AI course, resolving 5+ backend issues.
- Acquired foundational expertise in data science, artificial intelligence, and cloud computing through virtual training modules.

## PROJECTS

### Full Stack Social Networking Platform

[GitHub](#)

- Independently engineered a full-stack application for Adhiyamaan College using Python, Flask, React.js, Bootstrap, and MongoDB to facilitate student-alumni career mentorship.
- Architected responsive web pages with HTML5, CSS3, and Bootstrap, implemented Role-Based Access Control (RBAC) with JWT authentication and bcrypt for secure password encryption, and developed analytics dashboards with React for staff monitoring.
- Optimized MongoDB queries by 20% using PyMongo for sub-50 ms read times, deployed on Render with CI/CD, and documented data flows, addressing security and visualization challenges.
- Secured First Prize at Project Expo 2024, outperforming 30+ projects, judged by industry experts including Amazon.

#### Real Estate Price Prediction Web Application

[GitHub](#)

- Solely developed a full-stack web application for Edunet internship using Python, Flask, JavaScript, HTML, CSS, Pandas, NumPy, and SciPy, leveraging Kaggle 2020 Bengaluru real estate data.
- Cleaned noisy data in Google Sheets to ensure consistent price formats, integrated predictive models via REST APIs, and achieved an R2 score of 0.85 for model accuracy.
- Designed responsive UI with Bootstrap, enhancing accessibility by 15%, and deployed on Netlify with Git-based CI/CD, documenting user manuals for maintainability.
- Debugged 5+ issues to ensure robust functionality and reliable data processing.

#### Blog API Service

[GitHub](#)

- Single-handedly developed a backend API service for Revature PEP using Java, Spring Boot, Javalin, and MySQL, enabling social media post, read, and delete functionalities.
- Implemented JWT authentication, optimized MySQL queries by 25% for performance, and achieved 90% code coverage with JUnit and Mockito, deploying via GitHub Actions.
- Documented APIs with Postman and refined microservices architecture through mentor feedback, ensuring scalability and reliability.
- Demonstrated proficiency in OOP and data structures for efficient backend design.

### EDUCATION

#### Adhiyamaan College of Engineering, Hosur

Aug 2022 – Jun 2025

Bachelor of Engineering – Computer Science and Engineering, CGPA: 8.05/10.0

Served as peer mentor for lab practicals, guiding 20+ classmates on shell scripting and database connectivity, and led project teams in technical symposiums.

#### IRT Polytechnic College, Bargur

Jun 2018 – Oct 2020

Diploma – Computer Science and Engineering, 89 Percentile

Top scorer in class for two consecutive years, leading lab sessions and earning recognition for academic excellence.

### CERTIFICATIONS

#### Python for Everybody Specialization – Coursera (University of Michigan)

2023

- Completed 5-course series (40+ hours) mastering Python, data structures, web scraping, and database integration with SQLite, enhancing full-stack development capabilities.

#### Google Data Analytics Professional Certificate – Coursera

2023

- Completed 8-course program (60+ hours) focusing on data cleaning, visualization, and analysis using Python, SQL, and spreadsheets, strengthening data-driven decision-making skills.

### ACHIEVEMENTS

- **First Prize at Project Expo 2024** – Adhiyamaan College, for Full Stack Social Networking Platform, outperforming 30+ projects, judged by industry experts including Amazon alumni.
- **Team Chess Champion** – Anna University Inter-College Tournament, 2022–2023 and 2023–2024, securing consecutive victories as part of the college chess team.
- **Participant, Smart India Hackathon** – Collaborated on innovative tech solutions, demonstrating initiative and problem-solving skills.