

Arockia Bilgates

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SUMMARY

Aspiring full-stack developer and mentor with strong experience in building scalable web apps, guiding 100+ students, and leveraging AI in robotics and finance. Skilled in Django, MERN, and ML with a passion for problem-solving and technical education.

EDUCATION

St. Joseph's College of Engineering & Technology
Bachelor of Engineering (CSE) - GPA: 7.21

Thanjavur, India
June 2017 - April 2021

SKILLS SUMMARY

- **Languages:** Java, Python, JavaScript, HTML, CSS, SQL, C++.
- **Frameworks:** Spring Boot, Hibernate, React, Express, Django, Flask, Scikit-learn, OpenCV.
- **Tools:** AWS (EC2, S3), Git, GitHub, Postman, REST API, MongoDB, Docker.
- **Platforms:** Jupyter, IntelliJ, VS Code, Eclipse, PyCharm, Netlify, Vercel.
- **Concepts:** DSA, OOP, System Design, SDLC, Agile.
- **Soft Skills:** Technical Training, Client Communication, Team Collaboration.

WORK EXPERIENCE

- ASSOCIATE ROBOTIC ENGINEER | Prag RoboticsFebruary 2024 - October 2024
 - Orchestrated the creation of multiple AI and automation modules using Python scripting and Java, increasing robotic task execution efficiency by 30%.
 - Mentored 10+ teams and 50+ students on applying ML/AI in robotics, leading to successful project outcomes.
 - Analyzed hardware simulation issues and enhanced testing workflows using Docker and containerized environments, improving deployment speed by 25%.
 - Integrated computer vision and AI models, improving system performance and reducing errors by 15%.
- IT Trainer | CADD CentreFebruary 2023 - October 2023
 - Delivered technical training in Java, Python, SQL, HTML, CSS, JavaScript, and core DSA to over 100 students.
 - Simplified programming concepts, boosting student engagement by 40% and improving comprehension in 80% of students.
 - Mentored 50+ students on industry best practices, preparing them for real-world software development challenges.
 - Created interactive materials, increasing engagement by 30% and improving concept understanding.

PROJECTS

- Full Stack E-Commerce Website Using MERN Stack | [LINK](#)December 23- February 2024
 - Orchestrated the architecture of a scalable e-commerce platform using MongoDB, Express.js, React, and Node.js, with user authentication and secure payment gateways via Stripe/PayPal.
 - Improved frontend speed by 30% via lazy loading, code splitting, and Redux Toolkit.
 - Designed secure RESTful APIs with JWT auth, ensuring smooth frontend-backend communication.
 - Reduced server response latency by 25% by implementing in-memory caching and query optimization strategies.
- Credit Card Fraud Detection | [LINK](#)September 23- October 2023
 - Developed and fine-tuned a logistic regression-based machine learning model achieving an 87% accuracy rate in predicting credit card fraud.
 - Minimized false positives by 16% through rigorous feature engineering and hyperparameter tuning processes.
 - Implemented under-sampling and ensemble techniques to address class imbalance, leading to 15% improved performance.
 - Successfully mitigated fraudulent transactions while optimizing model efficiency by 23% and accuracy by 6%.
- Full-Stack Blog Application using Django & MySQL | [LINK](#)July 23- August 2023
 - Developed a scalable Django-based blog platform managing over 500 posts with dynamic content rendering.
 - Improved admin productivity by 50% by customizing the Django admin interface and enabling post categorization.
 - Optimized frontend performance, reducing page load time by 35% through static file management and efficient templates.
 - Integrated MySQL with Django, enabling efficient data handling and improving query response time by 40%.

CERTIFICATES

- Career Essentials in Generative AI (Microsoft + LinkedIn) | [CERTIFICATE](#)
 - Learned the fundamentals of generative AI, prompt engineering, and ethical AI practices in real-world applications.
- Data Analysis Intern – Null Class) | [CERTIFICATE](#)
 - Conducted EDA and visualizations using Python, Pandas, and Matplotlib to extract insights from real-world data.