

TAUSHIQ BALAMURUGAN

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🐙 github.com/taushiq

Education

Amrita Vishwa Vidyapeetham

Bachelor of Technology in Computer and Communication Engineering

Jun. 2020 – Sep. 2024

Coimbatore, Tamil Nadu

Coursework

- Data Structures and Algorithms
- Object-Oriented Programming
- Database Management Systems
- Web Development
- Cloud Computing
- Operating Systems
- DevOps and CI/CD Practices
- Computer Networks
- Artificial Intelligence

Experience

Bosch Global Software Technologies Private Limited

Software Engineer Intern

Feb 2024 – Aug 2024

Coimbatore, Tamil Nadu

- Web interface with HTML, CSS, and JavaScript; implemented Django backend for server logic, APIs, and database operations.
- Integrated Django REST Framework (DRF) for scalable API development, enabling real-time data retrieval and processing. Developed RESTful APIs for interaction between the frontend and backend.
- Incorporated a MySQL database for data storage and management, leveraging Django ORM for query handling and database operations.
- Created interactive visualizations and reports using Matplotlib, Pandas, and NumPy.
- Used Git for version control and collaboration on GitHub and GitLab. Adopted Agile methodology.

Projects

Wallet Wise | *Angular, Spring Boot, AWS, MySQL* - 🐙 github.com/wallet-wise

Sept 2024

- Full-stack expense tracker application with Angular for the front end and Spring Boot for the back end. optimized for scalability and reliability in fast-paced environments.
- Implemented data modeling and cloud deployment on AWS using Elastic Beanstalk for scalable hosting, RDS for reliable database management, and S3 for secure file storage, supporting over 1,000 concurrent users.
- Designed a responsive interface with Ng-Zorro Ant Design, SCSS, and Angular ReactiveForms for intuitive, cross-platform and enhanced user experiences.
- Developed RESTful APIs in Spring Boot with JWT-based authentication for secure backend architecture, incorporating service and controller layers to handle business logic and request processing. (Microservices architecture principles)
- Used RxJS for real-time data updates and efficient build techniques for high production and development performance.

eGOV Pulse | *Flask, SQLAlchemy, Redis, Elasticsearch, JWT* - 🐙 github.com/eGOV-Pulse

Jan 2024

- Developed a Full Stack Web application for Hierarchy based document management, implements secure authentication, role-based access control, and password management using Flask-Login, diverse user roles like VAO, Tahsildar etc.
- Real-time task tracking and progress updates with Redis and RQ, responsive user experience for operations like data exports and background processing.
- Integrates Elasticsearch for full-text search and Flask-Babel with Microsoft Translator API for dynamic multi-language support. Features real-time messaging and notification systems for communication and task updates.
- Automates email notifications, file exports, and approval workflows via Flask-Mail.

Fly Ease | *C++, MySQL* - 🐙 github.com/Fly-Ease

Sept 2023

- Developed a console-based Airlines Reservation System, featuring flight management, ticket booking, and data storage with CRUD operations for flight details such as flight number, departure, destination, time, availability, and pricing.
- Interactive ticket booking system with automatic ticket number generation, passport-based validation, and real-time flight assignment after every 25 tickets sold.
- Incorporated MySQL queries for seamless data synchronization, backend operations, and efficient database interaction.
- Utilized C++ Standard Library and MySQL Connector C++ for menu-driven interfaces, input validation, and exception handling, ensuring a reliable, user-friendly, and high-performance application.

Technical Skills

Languages: Python, Java, C/C++, TypeScript, HTML/CSS, JavaScript (js), SQL, GO

Developer Tools: VS Code, Eclipse, Android Studio, GitHub, GitLab, Jenkins, IntelliJ IDEA

Technologies/Frameworks: Linux, Docker, Kubernetes, Git, JUnit, Spring Boot, Angular, Flask, Bootstrap, Tailwind CSS, Django, Django Rest Framework (DRF), Spring Security, RESTful APIs, OpenAPI, Swagger UI

Database Systems: PostgreSQL, MySQL, Oracle DB, NoSQL (MongoDB)

Cloud Platforms: Google Cloud Platform (GCP), AWS (Elastic Beanstalk, S3, RDS), Azure