

Alan Derwin A

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EDUCATION

St Joseph's University

Master of Science: Computer Science

Bangalore, Karnataka

Aug. 2022 – Present

St Joseph's College (Autonomous)

Bachelor of Science: Mathematics, Electronics, and Computer Science

Bangalore, Karnataka

Aug. 2019 – Aug. 2022

COURSEWORK / SKILLS

- DSA
- Operating Systems
- Oops Concepts
- Computer Networks
- System Design
- Cloud Computing
- Software Engineering
- DBMS

PROJECTS

Railway Reservation Management Website | *React.js, Node.js, Express, MySQL*

July 2023 - Nov 23

- Developed a comprehensive railway reservation system with React JS (frontend), Node JS, and Express (backend), backed by MySQL for efficient database management.
- Designed an intuitive booking form, integrating Razorpay test API for secure payment simulation, and stored booking details in MySQL upon successful transactions.
- Implemented PNR status functionality, enabling users to check, view, and cancel tickets seamlessly while ensuring real-time updates through efficient database interactions.
- Created a dynamic module for real-time train tracking, utilizing user-entered train IDs and database queries to provide accurate information on intermediate stops, arrival, and departure timings.

MERN Stack Blog Website | *MongoDB, Express.js, React.js, Node.js*

Aug 2023 - Nov 2023

- Developed a dynamic blog website with React JS (frontend), Node JS, and Express (backend), backed by MongoDB for efficient database management
- Implemented secure user authentication using JWT, Cookie Parser, and Bcrypt for robust login and registration functionality.
- Designed an editor form enabling users to create posts with titles, summaries, images, and content. Stored post data in the database upon creation for seamless content management.
- Enabled users to select and modify posts, improving the platform's flexibility. Implemented backend logic to support post updates for an intuitive editing experience.

RESEARCH

Comparative Analysis of User-User Collaborative Filtering Approaches

June 2023 – Nov 2023

- Conducted in-depth research on "Comparative Analysis of User-User Collaborative Filtering Approaches in Music Recommendation System," evaluating five collaborative filtering models.
- Explored and compared models like Pearson correlation, cosine similarity, adjusted cosine similarity, slope one, and SVD, providing a comprehensive understanding of their strengths and weaknesses in music recommendation.
- Employed precision, recall, F1 score, and RSME to systematically assess and compare collaborative filtering models, ensuring a thorough and nuanced analysis.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, HTML/CSS, MySQL

Frameworks: React.js, Node.js, Express, Material-UI, Tailwind CSS, Vite, Bootstrap

Developer Tools: Git, AWS, VS Code, Visual Studio, Pycharm, IntelliJ, Eclipse, Android Studio

Libraries: React, react-router-dom, pandas, Numpy, scikit-learn, Daisy UI

CERTIFICATIONS

Web Development Bootcamp: by Dr. Angela Yu

The Agile Certified Practitioner Training Program: by Sorin Dumitrascu

AWS Academy Graduate - AWS Academy Cloud Foundations: AWS Academy