

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

Masala Box Food Delivery App | *React.js, Tailwind CSS, Firebase*

Feb 2024 - May 2024

- Developed a responsive food delivery application using React.js and TypeScript.
- Styled the app with Tailwind CSS for a modern and user-friendly interface.
- Utilized Firebase for real-time database management and authentication, enabling seamless user registration and login.
- Implemented Context API for global state management, handling user sessions and cart data.
- Designed and integrated a functional cart system, including browsing menu items, adding items to the cart, viewing cart contents, and proceeding to checkout.

AI Content Generator | *Next.js, TypeScript, PostgreSQL, Clerk, Drizzle ORM*

Jul 2024

- Developed an AI content generation application using Next.js and TypeScript for the frontend.
- Integrated Gemini API to generate content based on user-selected templates and topics.
- Displayed generated content in an editor panel with real-time updates for a seamless user experience.
- Stored all generated content in a PostgreSQL database using Drizzle ORM for efficient data management.
- Implemented a history page to display users' activity, including previously generated content, with options to delete and copy content.

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, 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

Libraries: React, react-router-dom, 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