

Dipson K C

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EDUCATION

Bachelor of Science in Computer Science

Apr. 2024 - Present, University of Arizona, Tucson, Arizona

Associates in Computer Science

Aug. 2022 - Aug. 2024, Pima Community College, Tucson, Arizona

PROJECTS

Finance Tracker

- Designed and engineered a user-friendly web interface using **ReactJS**, enabling users to input and visualize financial transactions and account balances seamlessly.
- Implemented backend logic utilizing **NodeJS**, ensuring secure **user authentication**, **data storage**, and transaction processing.
- Integrated **third-party APIs**, Plaid, analyzing and categorizing bank account transactions to generate financial reports.
- Implemented **data encryption** techniques, safeguarding sensitive user information and ensuring confidentiality and privacy.

UArizona Guide

- Developed a course guide helper website using **ReactJS**, **Angular**, **Spring Boot**, **AWS Amplify**, and **PostgreSQL**.
- Created an intuitive user interface allowing users to select their desired major from the University of Arizona's offerings.
- Implemented **automated generation** of a four-year course schedule based on the selected major, providing users with a comprehensive academic plan.
- Leveraged **AWS Amplify** for seamless deployment and scaling of the application, ensuring optimal performance and reliability.

Blog Post Application

- Designed and engineered a user-centric Blog Post Application using **ReactJS** for the frontend, providing an intuitive interface for users to create, read, update, and delete blog posts.
- Integrated **AWS Amplify** for the backend, implementing a serverless architecture that ensured efficient performance and scalability.
- Implemented **user authentication** using the **AWS Amplify authentication** module, ensuring secure user registration, login, and session management.
- Established a robust database using Amazon **DynamoDB** to store blog posts, allowing for efficient **data retrieval** and manipulation.

Customer Support Chatbot

- Utilized **Python** and the **ChatterBot library** to develop and deploy a highly functional chatbot for customer support.
- Regularly updated the chatbot's knowledge base, incorporating new questions and refining responses based on user feedback.
- Leveraged the **ChatterBotCorpusTrainer** to train the chatbot on the **English language corpus**.
- Integrated natural language processing (NLP) algorithms to understand and generate accurate responses to user queries.

TECHNICAL SKILLS

Languages: Python, Java, SQL, HTML5, CSS, JavaScript C, C++

Developer Tools: Postman, Git

Libraries/Frameworks: AWS, ReactJS, PostgreSQL, Spring Boot, NodeJS, Docker

Office Skills Microsoft Teams, Excel, Office, Word, Powerpoint