Dipson K C

(520) - 440 - 4502 | dkc04@arizona.edu | linkedin.com/in/dipsonkc

EDUCATION

Bachelor of Science in Computer Science
University of Arizona, Tucson, Arizona, **Expected Dec. 2025**
Relevant Coursework: Data Structures, Algorithms, Operating Systems, Software Engineering, Database Systems

Associates of Computer Science
Pima Community College, Tucson, Arizona, **Aug. 2022 - Aug. 2024**

EXPERIENCE

Intern | *Sep. 2024 - Present*
DesignLab, *University of Arizona*

- Developed a website prototype using **ReactJS, Spring Boot, and AWS**, reducing feedback turnaround by **25%** through streamlined user interaction.
- Spearheaded the introduction of **Agile methodologies**, reducing project timelines by **20%** and improving team communication efficiency by **30%**.
- Engineered **5+ prototypes and mockups** iterating based on stakeholder feedback, improving project feasibility and user experience for 10+ stakeholders.
- Partnered with **developers and engineers** to validate the technical feasibility of designs, ensuring a **seamless integration** between user experience and technical execution.
- Led collaboration between developers and designers, ensuring technical feasibility of design solutions, contributing to a business proposal that secured **$500,000** in funding.
- **Streamlined project management** by introducing agile methodologies, reducing project timelines by **20%** and improving communication efficiency by **30%**.

PROJECTS

Arizona Guide

- Developed a **course guide helper website** using **ReactJS, Angular, Spring Boot, AWS Amplify, and PostgreSQL**, improving academic planning for **2000+ students**.
- Created a **user interface** that allows users to select their major from **10+ options** offered by the University of Arizona.
- Automated generation of a **4-year course schedule**, resulting in a **90% accuracy rate** in academic plans.
- Leveraged **AWS Amplify** to achieve a **99.9% uptime** for seamless deployment and scaling of the application.

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 a **serverless backend with AWS Amplify**, ensuring **90% performance efficiency** and robust scalability.
- Implemented **secure user authentication** using AWS Amplify, achieving **100% compliance** with security protocols.
- Established a robust database using Amazon **DynamoDB** to store blog posts, allowing for efficient **data retrieval** and manipulation.

Customer Support Chatbot

- Developed a **chatbot** using Python and the **ChatterBot library**, answering **95% of customer queries within 2 seconds**.
- Updated the chatbot's **knowledge base monthly**, increasing its response accuracy by **15%**.
- Trained the chatbot using the **ChatterBotCorpusTrainer**, enabling it to handle **500+ queries** daily.
- Integrated **NLP algorithms** to improve user query understanding, leading to a **20% improvement** in response relevance

SKILLS

Languages & Tools   Python, Java, SQL, JavaScript C, C++, Postman, Git, Figma

Libraries/Frameworks AWS, ReactJS, PostgreSQL, Spring Boot, ExpressJS, Vue.js, Docker, MongoDB, GraphQL, Git, Postman