

HARSH PATEL

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Education

DePaul University

Sep. 2020 – Dec. 2023

Bachelor of Science in Computer Science, Minor in Mathematics

Chicago, IL

GPA: 3.91

Relevant Coursework

- Data Structures
- Computer Systems
- Database Systems
- Analysis of Algorithms
- Distributed Systems
- Object Oriented Development

Experience

Amazon Alexa

June 2023 – September 2023

Software Development Engineer Intern

El Segundo, CA

- Developed a WebUI using Axum in Rust to enhance internal developer efficiency, enabling users to access multiple endpoints
- Created a robust and scalable fargate container for hosting the web application using AWS CDK and TypeScript
- Leveraged CDK code to streamline the deployment process by directly deploying Docker images to an ECR (Elastic Container Registry)
- Collaborated with cross-functional teams to quickly address and fix flagged results, ensuring prompt resolution and continuous improvement
- Successfully improved the efficiency of the internal developer workflow, resulting in a 87.5% increase in productivity and overall user satisfaction

Technical Skills

Languages: Python, Java, Rust, Swift, C, HTML/CSS, SQL, TypeScript

Developer Tools: VS Code, Xcode, Amazon Web Services, Git

Technologies/Frameworks: Unix, AWS CDK(Cloud Development Kit), Django, UIKit, SwiftUI, Node.js, PostgreSQL

Projects

Medication Reminder App | *SwiftUI, EventKit, UserNotifications*

- Developed a medication reminder app using SwiftUI, EventKit, and UserNotifications to provide users with timely notifications about their medicine schedules
- Integrated EventKit framework to link medication reminders with users' calendars, ensuring seamless synchronization of medication schedules
- Implemented UserNotifications framework to deliver personalized notifications to users, including reminders for medication intake and important updates
- Designed the app's user interface with SwiftUI, enabling an intuitive and user-friendly experience for viewing medication details, such as purpose and common side effects

Travel Planner Website | *Django, AWS, PostgreSQL, HTML/CSS*

- Led a group project to develop a Travel Planner web app using Django, deployed on AWS EC2, providing users with personalized travel itineraries
- Integrated OpenAI GPT 3.5 API to generate custom travel itineraries, leveraging natural language processing to curate recommendations for activities, sightseeing, and dining options
- Utilized Amadeus API to seamlessly integrate booking and activity information, allowing users to explore and reserve flights, accommodations, and local experiences
- Implemented PostgreSQL to store previous trips, enabling users to access their travel history and review past itineraries for reference and future planning.
- Deployed the web app on Nginx, ensuring optimal performance and scalability, while utilizing HTML, CSS, Bootstrap, Ajax, and JavaScript to create an engaging and responsive user interface.

Jetpack Joyride Clone | *Rust, Macroquad*

- Created a random obstacle generation system to dynamically create obstacles as the user progresses through the game, ensuring endless gameplay and increasing difficulty.
- Designed an intuitive user interface and responsive controls, enabling smooth and immersive gameplay, while maintaining a similar feel to the original Jetpack Joyride game.
- Implemented a distance tracking feature, allowing users to see how far they have traveled within the game and compete for high scores.