HARSH PATEL

Chicago, IL

📞 630-903-9370 ✉ harshkpatel2002@gmail.com 🔗 linkedin.com/in/harshkpatel2002 🐙 github.com/harshkpatel2002

Professional Summary

Software engineering professional specialized in crafting efficient systems using Rust and Java, delivering robust and scalable solutions. Background in developing high-performance services at Amazon, with expertise encompassing numerous AWS Services. Proven ability to streamline processes and improve workflows for developers and scientists. Committed to continuous learning and collaborating cross-functionally to drive innovative technology solutions.

Experience

Amazon Alexa   **June 2023 – September 2023**
Software Development Engineer Intern   *El Segundo, CA*

- Leveraged Rust and AWS to interact and enhance an internal search engine, enabling users to access multiple endpoints
- Created a robust and scalable Fargate container protected by HTTPS
- Optimized ML model training sample creation with AWS and DynamoDB, increasing model training efficiency by 30%
- Collaborated with cross-functional teams to quickly address and fix flagged issues, ensuring a strong CI/CD workflow
- Improved efficiency of internal developer workflow, resulting in a 87.5% increase in productivity

Technical Skills

Languages: Java, Rust, Swift, Python, C, HTML/CSS, SQL, JavaScript
Developer Tools: VS Code, Xcode, Amazon Web Services, Git, Bash
Technologies/Frameworks: Unix, AWS CDK, Django, UIKit, SwiftUI, Node.js, PostgreSQL

Projects

Alexa Web Search Engine | *AWS ECS, DynamoDB, Rust, HTML/CSS*

- Leveraged CDK to create a scalable and replicable search service
- Utilized AWS Cloudwatch monitoring to ensure service uptime and prompt issue resolution
- Integrated DynamoDB to store search result quality feedback for ML model training sets
- Implemented ticketing solution to efficiently flag content issues and relay to appropriate teams
- Opened access to service across the organization, by removing need for corporate VPN enabling secure external access

Medication Reminder Mobile App | *SwiftUI, EventKit, UserNotifications*

- Developed a medication reminder app using EventKit and UserNotifications to provide users with timely notifications
- Integrated EventKit framework to link medication reminders with device calendar
- Leveraged SwiftUI to enable an intuitive and user-friendly experience for viewing medication details across varying devices

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

- Led a group project to develop a travel planner web app providing users with personalized travel itineraries
- Integrated GPT 3.5 to generate travel itineraries, curating recommendations for activities, sightseeing, and dining
- Utilized PostgreSQL to store previous trips, enabling users to review past itineraries for reference and future planning.

Education

DePaul University   **Sep. 2020 – Dec. 2023**
Bachelor of Science in Computer Science, Minor in Mathematics   *Chicago, IL*
GPA: 3.92

Relevant Coursework

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