

HARSH PATEL

Chicago, IL

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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.

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

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

Freelance Software Engineer

March 2022 – Present

Software Development Engineer

Chicago, IL

- Modernized website to align with industry trends, incorporating responsive design principles to improve user experience
- Developed a web crawling tool for an investment company, enhancing the efficiency of obtaining critical metrics
- Collaborated with clients to understand requirements, provide timely updates, and ensure alignment with expectations
- Demonstrated strong communication skills, conveying technical concepts to non-technical stakeholders
- Completed various freelance projects across diverse platforms, demonstrating adaptability and problem-solving skills

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

Education

DePaul University

Sep. 2020 – Dec. 2023

Bachelor of Science in Computer Science, Minor in Mathematics

Chicago, IL

GPA: 3.92

Relevant Coursework

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