

DHRUVKUMAR PARMAR

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PROFESSIONAL SUMMARY

Software developer with experience enhancing interaction efficiency, system reliability, and user workflows across mobile and research platforms. Delivered measurable impact such as **90%** crash reduction, **40%** faster load times, and **20%** faster annotation workflows. Strong interest in **research driven Human Computer Interaction** and **AI driven user modeling**, supported by **open-source contributions**, academic **HCI/ML** coursework, and practical work on **real-world** interactive systems.

EDUCATION

Saint Louis University

August 2024 - May 2026

Master of Science, Computer Science

- **GPA:** 3.53 (Major)
- **Courses:** Python Programming, Algorithms, Human Computer Interaction, Machine Learning, Software Design, Database

The Maharaja Sayajirao University of Baroda

August 2020 - May 2023

Bachelor of Computer Application- **Medium of Instruction (English)**

- **GPA:** 3.12 (Major)

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, Dart, Swift, Kotlin
- **Mobile Development:** Flutter, Android (XML), SwiftUI, XML, Firebase
- **HCI & Design:** Figma, Cognitive Load Analysis, Wireframing, Prototyping, Usability Testing, Interaction Modeling
- **Tools & Technologies:** Docker, Agile, JSON, Git, Jira
- **Backend & DB:** MongoDB, Firebase RTDB, MySQL
- **ML & Data:** NumPy, pandas, scikit-learn, Matplotlib, PyTorch

EXPERIENCE

Superstars - Software Development Intern (Remote, USA)

May 2025 – Aug 2025

- Reengineered the company's mobile application using **Flutter 3.22+** and modernized the tech stack by replacing deprecated packages, cutting app crashes by **90%**.
- Reduced cognitive load by simplifying navigation flows using Bloc state management, elevating app responsiveness and user engagement across **1,000+ sessions/week**.
- Streamlined real-time story feeds and job posting modules, cutting load times by **40%** and handling **10,000+ content fetches/month** with greater reliability.
- Led GitHub version control practices, completing **15+ pull requests** and coordinating **3+** agile sprints with developers for seamless integration.

Open Source with SLU - Full-Stack Developer (St. Louis, MO, USA)

May 2025 – Aug 2025

- Led the creation of Mouser, a simplified **research data** tool that incorporates the **Rerum annotation** framework.
- Built Python/JavaScript modules and **redesigned annotation workflows**, cutting metadata latency by **35%**.
- Improved UI for complex **annotations**, boosting interaction efficiency by **20%**.
- Fixed major API alignment issues and added **automated tests** for reliability.
- Collaborated in a **3-member** GitHub workflow and refactored **legacy code** for maintainability.

Cutting Edge Infotech - Mobile App Developer (Vadodara, India)

November 2022 - May 2023

- Incorporated backend REST APIs into Android apps, shortening customer onboarding time by **20%**.
- Spearheaded development of reusable UI components using Fragments, led to the elimination of **25%** unnecessary pre-existing duplicate code and reduced the time taken to deliver features from **3 weeks to 2**.
- Eliminated **50+ bugs** on various releases that resulted in an increase in the app's Play Store rating to **4.2** by the end of employment.

PROJECTS

Mouser-Rerum Integration Project - Open Source SLU Collaboration

June 2025

- Integrated Python-based endpoints with Rerum, lowered metadata retrieval latency by **35%**.
- Refined UI workflows with annotations, increasing page interaction rates by **20%** across homepage and summary pages.
- Troubleshooted and resolved **5+** critical bugs related to dependency mismatches and API response handling in collaboration with a **3-member** team.
- Implemented **MongoDB + TinyNode** backend storage, strengthened annotation persistence and improved query response times by **25%**.

ClearPass AI - Interview Assessment tool with AI

April 2025

- Engineered a Java Swing desktop application to mimic interviews and evaluate performance, including support of 50+ mock interviews during the test period.
- Enhanced authentication and evaluation modules, interview simulation and result analysis screens, cutting manual evaluation time by **80%**.
- Architected modular UI components that decreased maintenance overhead by **30%** and allowed the speed of navigating the UI to increase by **25%**.

Detectify (No-Code Hackathon, a 48 Hour Hackathon) — WashU

February 2025

- Secured **3rd place** among **20+ teams** by building a deepfake detection app within **48 hours**.
- Prototyped an accessible UI in Figma with **95% usability score** (judges' feedback).

CERTIFICATIONS

Android Enterprise — Android Enterprise Associate Learning Path

April 2021