# Drishti Sharma

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## About Me

Experienced software developer specialized in developing web applications using React, Flask and end-to-end native iOS applications. Proficient in React, JavaScript, Flask, Python, Swift and XCode. Successfully led and collaborated on projects in healthcare and finance, enhancing application performance and user experience. Strong organizational and communication skills, effectively prioritizing tasks and delivering projects on schedule within Agile SDLC. Demonstrated problem-solving and technical abilities, creating production-ready solutions, reusable components, and dynamic UIs. Excelled in facilitating interdisciplinary collaboration with

## Experience

### Queen's University

*Full Stack Developer*                                                                                   *May 2023 - April 2024*
- Developed a medical chatbot using **React** and **JavaScript** and integrated multiple machine learning models. Implemented backend and database using **Flask, Python, and MongoDB**
- Employed **Axios** for making HTTP requests to interact with backend services.
- Utilized various components from the **Chakra UI library**, including Button, Text, Center, Box, and useDisclosure, to create a responsive and user-friendly interface.
- Implemented real-time speech recognition capabilities using the react-speech-recognition library, enhancing user interaction through voice commands.
- Developed algorithms to analyze patient vital signs and chat interactions, generating comprehensive patient rankings. Integrated past patient records for enhanced accuracy in ranking and analysis
- Managed routing and navigation within the application using **useRouter** from Next.js.
- Created  RESTful APIs and integrated various Flask extensions like flask_pymongo and flask_cors.
- Utilized MongoDB for storing patient data, video logs, and transcripts. Implemented **GridFS** for efficient storage and retrieval of large media files such as patient videos and audio logs.
- Conducted rigorous testing and refinement to ensure accuracy and reliability, leading to the publication of the work in the International Conference on Digital Health (ICDH) 2024 as a paper titled "TriageBot and Assistive Triage Framework."
- Supervised undergraduate students and orchestrated their work  using **Trello** during the development process of the whole application
- *Environment - React, Javascript, Flask, Python, MongoDB, Tensorflow, Github*

### Deloitte USI

*Software Developer Consultant (iOS engineer)*                                                        *Jun 2021 - Aug 2022*
- Worked with a team of **3** to develop and deliver a complex iOS application for Kaiser Permanente.
- Liaised with Product Managers to identify minimum viable product requirements and clearly defined feature sets into well-scoped user stories for individual team members.
- Contributed to a chat module of an AI based questionnaire which appoints users a preferable practitioner based on the acuity of the symptoms.
- Optimized app performance using Instruments for responsiveness, memory profiling to fix leaks, energy profiling to reduce battery consumption, and UI profiling to enhance rendering efficiency and interaction..
- Configured and managed **URLSession** instances for making HTTP network requests and Implemented HTTP methods (GET, POST, PUT, DELETE) for various API interactions.
- Demonstrated proficiency in software engineering best practices, including end-to-end testing, design documents, CI/CD, code reviews, and documentation.
- *Environment: Swift, ObjectiveC,  XCode, SQLite, UIKit, XCTest, XCUITest, JSON APIs, RESTful APIs, Agile, and JIRA, Confluence, Github.*

### HSBC Technologies

*Software Developer (iOS engineer)*                                                                    *Jul 2018 – May 2021*
- Collaborated with multiple cross-functional teams from across the globe and successfully launched **3** frameworks and an application end-to-end, increasing revenue of the "Wealth and Insurance" sector by **60%**.
- Successfully launched a specialized **FX mobile app** in Singapore and Jersey, which received 3 industry awards in Singapore across various categories.
- Developed **HSBC Well+** framework which calculated footsteps and heartbeat using **healthkit** and updated the information live on the mobile application.
- Integrated **AEM** for mobile and created a content management framework.

- Managed dependencies and third-party libraries with **CocoaPods**, ensuring smooth integration and updates.
- Played a crucial role in **High-Level Design, Low-Level Design** and **documentation** of the project.
- Designed and developed the UI after having discussions with multiple stakeholders; integrated the application with Restful APIs using swift concurrency, and extensively worked on increasing the speed of application by **30%**.
- Implemented **analytics Tags** and **accessibility features**(such as voiceover gestures and screen reader) throughout the application.
- Increased coverage of Unit and UI testing by **80%**. It helped in reducing bugs significantly.
- Worked on automating the project setup process using a **shell script**. The time for setup was reduced **from hours to a few minutes.**
- Helped hire and onboard new engineers, mentored them, and assisted with solving complex middleware technical issues.
- I was awarded the company's Pat on the back Award for the efforts and the results.
- Took sessions on iOS development to help colleagues in cross-platform skill development
- *Environment: Swift, ObjectiveC, XCode, HealthKit, MVVM, CLEAN, UIKit, XCTest, XCUITest, JSON APIs, RESTful APIs, Agile, and JIRA, Confluence, Facebook Snapshots, Accessibility, AEM, Github*

## Relevant Projects

**Location Tracker**
https://github.com/Drishti2996/LocationTracker
- Developed an application to track users data either every 30 seconds or when a user moves 200mts.
- Technologies used - CoreData, CoreLocation, AWS RDS, Lambda, API Gateway.
- Architecture used - CLEAN architecture

## Technical Skills

**Programming Languages**: Swift, Objective-C, C, C++, C#, Java,Python, Javascript
**iOS Specific Skills:** Core Data, UIKit, HealthKit, SwiftUI, CoreAnimation, SQLite, Accessibility, Cocoapods
**Architectures**: MVP, CLEAN, MVVM
**Backend**: Flask, Django
**Development Environments:** XCode, Atom, Eclipse,Visual Studio Code,
**Libraries**: PyTorch, Keras, scikit-learn, Tensorflow, OpenCV, Pandas, Numpy, Matplotlib, Seaborn, spacy
**AWS Services**: Lambda, S3, SQS, EC2, ECS, EBS, EFS, API Gateway
**Database**: SQL, MySQL, MongoDB, PostgreSQL
**Project Management Tools**: Atlassian JIRA, Confluence, Agile Methodology
**Platforms**: Splunk, Dynatrace, Crashlytics
**Web**: HTML5, CSS3, JavaScript, React, Node.js, Next.js, Nest.js
**Testing Tools/Frameworks**: SwiftLint, XCTest, XCUITest, FacebookSnapshot
**Others**: Restful APIs, JSON, Github, Jenkins

## Publication

- Triage-Bot: An Assistive Triage Framework. In 2024 IEEE International Conference on Digital Health (ICDH). IEEE, 2024.

## Education

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|---|---|
| **Master in Computing** | 2023 - 2024 |
| *Queen's University* | *Kingston, Canada* |
| **Bachelor of Technology in Computer Science** | 2014 - 2018 |
| *Banasthali University* | *Rajasthan, India* |

## Certifications

- AWS certified Solution Architect Associate, 2020
- Diploma in ASP.Net, Banasthali Vidyapeeth, 2016
- Advance Diploma in French, Banasthali Vidyapeeth, 2017