TAPOS DATTA

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TECHNICAL SKILLS

Programming Languages:	Swift, C++, Java, Kotlin, Python
Software & Tools:	Xcode, CocoaPods, SwiftPM, Git, Jira, Android SDK
Frameworks & Technologies:	SwiftUI, UIKit, AVFoundation, CoreImage, Swift Concurrency
Competencies:	MVVM, Clean Architecture, RESTful API Integration

PROFESSIONAL EXPERIENCE

Senior Software Engineer   *November 2021 - Present*
BrainCraft Ltd., Dhaka, Bangladesh

- Researched and implemented new technologies to enhance iOS application performance, resulting in a **40%** increase in speed and a **17%** reduction in crash rates.
- Optimized runtime memory usage, **reducing** peak memory footprint by **25%** and improving stability on low-memory devices.
- Developed real-time image processing features in an app, enabling over **200,000 users** to enjoy smooth live filters and video effects.
- Managed a team of **5**, overseeing sprint planning, code reviews, and feature development, resulting in efficient workflows and faster release cycles.

Software Engineer   *July 2019 - October 2021*
BrainCraft Ltd., Dhaka, Bangladesh

- Built and scaled *Video Crop* android app from scratch using MVVM, custom rendering, and advanced video processing—reaching **1M+** users and delivering a seamless editing experience.
- Collaborated with a team to develop applications, applying efficient algorithms that resulted in a **15%** increase in user satisfaction scores.

Software Engineer   *October 2017 - May 2019*
iHealthScreen Bangladesh Ltd., Dhaka, Bangladesh

- Developed systems for the health sector using computer vision and machine learning algorithms that significantly reduce human error and lead to a significant increase in user satisfaction.
- Participated in code reviews and provided feedback to other developers, resulting in a **20%** improvement in overall code quality.

PROJECTS

- *Vintage Camera & Retro Filters*, implemented efficient preview and export pipelines in a camera app, significantly improving rendering speed and responsiveness.
- *Add Music to Video Voice Over*, core insight, enabling real-time mixing of multiple audio/video sources and implementing SOTA features for high performance and smooth user experience.
- *Sticker Maker*, implemented Shadow and Lasso tools with optimized image processing for faster, more accurate editing.

HIGHLIGHTS

- Contributed to **two** following android open source projects: Mp4Composer-android and LiTr.
- Completed academic projects like FacePal, E-CourseRegistration, and Pharmacy-Management, demonstrating proficiency in programming, development technologies, and tools.

EDUCATION

Shahjalal University of Science & Technology, Sylhet, Bangladesh   *Jan 2013 - Sep 2017*
B.Sc. in Computer Science & Engineering   *CGPA: 3.54*
Relevant Coursework: Software Engineering, OOP, Data Structures and Algorithms