Partho Biswas

Software Engineer - iOS

7+ years of professional experience in iOS platform, well-versed in Clean-Modular architecture, UI/UX, algorithm and data-structure. I built high performant apps, used by millions, and codebase that scales to large team of engineers, drove the product vision for my company.

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WORK EXPERIENCE

iOS Software Architect/Consultant
Self-employed / Freelance

March, 2020 – Current
Remote

- Helped implementing complex features and architectural issues for different startups to achieve their product goals
- Contributed to open source projects like WooCommerce iOS app and created few open source projects that gained **600+** stars
- Solved **700+** algorithmic problems on different platforms (Leetcode & AlgoExpert) and read **10+** iOS books

iOS Software Architect
Aurea Software

June, 2017 – February, 2020
Remote, through Crossover.com

- Increased the revenue by 5% for the company by delivering the Jive Daily app, leading a team of 4 developers
- Rearchitectured and developed Aurea-CRM app from Objective-C to Swift that scales to 12+ concurrent engineers with 90% Unit Testability
- Rearchitectured monolithic codebase to Clean-Modular architecture that improved startup time by 50% and build time by 70%
- Designed & developed the APIs and network layer collaborating with cross-functional teams, improving network data consumption by 20%

Senior Software Engineer (iOS)
IPVision Canada Inc.

September, 2014 – September, 2017
Dhaka, Bangladesh

- Achieved ∼5 million users, on ringID app, developed from scratch with a team of 6 engineers
- Implemented VoIP, Streaming and Store module/SDK for iOS with 95% Unit Test Coverage
- Developed custom image library that Improved image rendering quality and speed by 40% leading a team of 2 engineers
- Developed custom UI/UX components in Swift, used in multiple inhouse apps
- Improved app stability by 70% by developing custom debugging tool to troubleshoot on cross language project

Software Engineer (iOS)
Code Knight Solutions/ X-10 Technology.

September, 2013 – August, 2014
Dhaka, Bangladesh

- Developed flagship VoIP dialer app for iOS and iPad that generated $125K revenue in it's first year
- Codeveloped inhouse VoIP SDK for SIP/SDP, audio and video codecs.
- Improved G729 codec performance by replacing arithmetic operations with bitwise operations that reduced audio latency by 20%

SKILLS

- iOS, Swift, Objective-C
- MVP, MVVM, MVVM-C, VIPER, VIP
- Unit/UI Testing (TDD, BDD)
- iOS performance tuning, App profiling
- RESTful, JSON, Websocket

- Design Patterns, SOLID, Jira, Git, Agile
- Reactive programming (RxSwift)
- Continuous Integration & Delivery
- Algorithms & Problem Solving
- UIKit, CoreData, Alamofire, AutoLayout

- C++, Python
- Audio Video streaming technologies
- WebRTC, SIP, SDP, RTP, H.264
- VOIP, Media & Network programming

NOTEWORTHY

- Ranking **#1** Swift GitHub developer and **#2** Objective-C GitHub developer in Bangladesh on GitHub-awards
- Solved **700+** algorithmic problems on different platforms (Leetcode.com & AlgoExpert.io). Enthusiastic competitive programmer
- Currently have **2K+** reputation and among **Top 10%** iOS, **20%** Objective-C and **30%** Swift Contributor on StackOverflow.com

EDUCATION

Shahjalal University of Science and Technology
Bachelor of Science in Computer Science and Engineering

Sylhet, Bangladesh
February, 2009 – May, 2013

PROJECTS

ringID
Proprietor: Ring Inc, concern of IPVision Canada Inc.

- Architectured and developed audio and video calling SDK, image SDK and module from planning to production.
- Optimized the audio and video codecs to work on low latency and internet speed

ringID Messenger
Proprietor: Ring Inc, concern of IPVision Canada Inc.

- Implemented custom video filtering and live image rendering algorithm reducing GPU throughput by 20%
- Architectured and developed audio/video calling SDK solely. Led a team of 2 developers

Jive Daily (Product Line)
Proprietor: Jive Software, concern of Aurea Software

- Developed messaging system, facebook like newsfeed solely. Codeveloped networking, database. Contributed on almost whole app.
- Achieved 90% unit test coverage while using customized MVVM and service oriented architecture
- Managed MDM servers and configurations for MobileIron, AirWatch

Aurea CRM.pad
Proprietor: Aurea Software

- Led the development of Aurea-CRM app from legacy MVC, Objective-C/C++ codebase to latest Swift
- Improved performance and memory usage by 30%, achieved 95% unit test coverage while using VIPER and TDD
- Developed complete Continuous Integration and Continuous Delivery pipeline.

Gold Dialer
Proprietor: Code Knight Solutions Inc.

- Wrote the app solely from planning to production including VoIP SDK