

# Arpan Abhishek

## Software Engineer

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in @arpancodes

## PROFESSIONAL EXPERIENCE

**Associate Software Engineer**, *Light & Wonder* 🔗 Feb 2023 – present

- Conducted security integrity testing on a custom Android platform, ensuring Trusted Execution Environment (TEE) usage, and deployed custom Trusted Applications (TA) in Native Android OS.
- Optimized firmware upgrade flow, adhering to DFU Spec 1.1 using the libusb C++ library, reducing upgrade time from 32 minutes to 9 minutes and 54 seconds.
- Transitioned custom libraries to use protocol buffers for IPC, enhancing message stream efficiency.
- Implemented jurisdiction-based customized setups, covering backend (C++) to frontend (Angular).
- Facilitated the transition of the Angular codebase to React, improving maintainability and performance.

**Junior Software Engineer**, *CoronaSafe Network* 🔗 Apr 2021 – Jan 2023

- Designed and executed a real-time monitoring dashboard for the TeleICU system, reducing response time for critical incidents by 50%.
- Oversaw nationwide deployment of the TeleICU system with a 98% success rate in configuring cameras.
- Contributed to enhancing graphql-ppx to support arm architecture.
- Engineered a data deletion flow with automated background job processing in Ruby on Rails, reducing data deletion time by 65%.

**Open Source Fellow**, *MLH Fellowship* Sep 2021 – Dec 2021

- Increased test coverage of Facebook Open Source's Pysa project from 55% to 68% through unit testing.
- Developed the frontend for the Pysa Playground, improving usability.

**Full-Stack Freelance Developer**, *Upwork* 🔗 Sep 2018 – Apr 2021

- Converted design mock-ups into responsive and functional web pages.
- Developed full-stack web applications with seamless user experiences.
- Designed and implemented RESTful APIs for efficient data communication.
- Crafted online presence and visual identity for various businesses.
- Created high-converting landing pages to enhance user engagement and conversions.
- Ensured responsiveness of existing websites for optimal user experience across devices.
- Optimized codebase to improve website loading speed and overall performance.
- Successfully completed diverse web development school projects.

## PROJECTS

### Blockchain-based Medical Supply Chain Application

- Led the design and development of a blockchain-based medical supply chain app, ensuring regulatory compliance.
- Designed role-specific dashboards for manufacturers, pharmacists, doctors, and patients.
- Employed blockchain technology to enhance data integrity and security.

## SKILLS

**Programming Languages** (C++, Ruby, JavaScript - React, Angular, C#, SQL, Java, HTML5, CSS)

**Software Design and Testing** (Object-oriented design, Low level design, data structures, algorithms, Multi-threading, Backend Systems, Concurrency Programming, design patterns, Microservices, Unit testing, integration testing, TDD, Automated Testing - Fitnesse)

**Tools** (Git, JIRA, Trello, Github Projects, AWS, Azure) | **Soft Skills** (Collaboration and Teamwork, customer interaction)