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| **Kadapala Sivaji**  **M.C.A(Computer Science)**  **Total Exp.: 0 Years**  **Relevant Exp.: 0 Years** |  |

**Summary**

* I Kadapala Sivaji, working in Test Yantra Software Solutions as a **Software Engineer**
* As a developer I’m involved in developing **Microservice** based applications hosted in **AWS** **cloud** for various clients of Test Yantra using Java, J2EE and Spring Boot.

**Technical Skills**

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| **Languages** | Java 1.7, SQL, HTML, XML (Basics), CSS with Bootstrap, JavaScript |
| **J2EE Technologies** |  |
| **Frameworks - Front End** | React.Js |
| **Frameworks- Back End** |  |
| **Design Patterns** |  |
| **RDBS Applications** | Oracle 10g and MySQL 5.5 |
| **Web Servers** |  |
| **AWS** |  |
| **Code Quality Tools** |  |
| **Version Control System** | Git with GitHub as well as BitBucket |
| **Build Automation Tool** |  |
| **CI/CD Tool** |  |
| **Other Tools** | Tortise Git, Eclipse, STS, Fiddler, SQL Plus, MySQL Workbench, and MS Office (Word, Excel & Power Point) |
| **Software Development Processes (SDLC)** |  |

**Achievements**

* Got a membership from computer society of India
* Technical Fest Co-ordinator for TECHROMA-2019
* Presented a Seminar on “Raspberry Pi”

**Project Details**

1. **SBVLC: Secure Barcode-based Visible Light Communication for smart phones**

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| --- | --- |
| Front End Technologies | XML |
| Back End Technologies | Java,FireBase |
| Design Patterns used |  |
| RDBMS Application | MySQL |
| Tools Used | Android |
| Duration | Dec 2019 to July 2020 |
| Team Size | 1 |

**Summary:**

As an alternative to NFC technology, 2D barcodes have been increasingly used for security-sensitive applications including payments and personal identification. However, the security of barcode-based communication in mobile applications has not been systematically studied. In this project, I propose SBVLC - a secure system for barcode-based visible light communication (VLC) between smartphones.I formally analyze the security of SBVLC based on geometric models and propose physical security enhancement mechanisms for barcode communication by manipulating screen view angles and leveraging user-induced motions. I then develop two secure data exchange schemes. These schemes are useful in many security-sensitive mobile applications including private information sharing, secure device pairing, and mobile payment. SBVLC is evaluated through extensive experiments on Android phones

**Responsibilities:**

As a **Developer,** I was involved in

* Designing the **Android application** where we created below modules
* **User Module**
* **Banker Module**
* **QR Code Generation Module**
* **QR Code Scan Module**
* This project implemented an **android application** to make secure transactions. This system makes the payment and **OTP transmission** securely between users and bankers using **QR code** System.