# Sachin Raja Software Engineer

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## EDUCATION:

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| **Illinois Institute of Technology** - Masters in ECE; Major: Computer Engineering | | **August-2018** to **May-2020** |
| **Visvesvaraya Technological University –** Bachelors in EEE; Minor: Computer Engineering | | **August-2012** to **July-2016** |

## TECHNICAL SKILLS:

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| Core Programming Languages: | **C#**, Java, Python 3, Kotlin, C/C++, Go. |
| Backend Technologies: | NodeJS, Spring Boot, **.NET framework 4.5/3.5/2**, MVC, **ASP.NET Core**, Flask, Django. |
| Frontend Technologies: | **JavaScript: ReactJS, HTML5, CSS3/SASS**, Bootstrap. |
| Database Technologies: | **MySQL**, PL-SQL/T-SQL, POSTGreSQL, **MongoDB** (NoSQL). |
| Build/Deployment Technologies: | Gradle, Maven, Azure, AWS, GCP, Kubernetes, TeamCity, Docker Containerization. |
| Testing Tools/Frameworks: | XUnit, Mocha/Chai, Cucumber, TDD, Postman. |
| Protocols: | TCP/IP, MQTT, HTTP/S, FTP, VoIP, DNS, XBee, SSL. |
| Tools Used: | Git/GitHub, JIRA, **Team Foundation Server**, npm, Jenkins, Travis CI. |
| Operating Systems: | Windows, UNIX/Linux and CLI, Raspbian. |
| IDE/Editors Used: | VS Code, Jupitor Notebook, Eclipse, IntelliJ. |

## WORK EXPERIENCE:

**MetriTrack Inc.: Engineering Intern**　　　　　　　　　　　　　　　　　　　　　　**August-2019 to May-2020**

- Worked on designing and developing an application in **C# .NET** framework.
- Created Technical documents from the Functional documents.
- Unit tested, took active part in design and data modelling discussions, hotfixes, patches, in time production issue fixes.
- Learning, and incorporating newer technologies that could make our product more efficient and attractive to more clients.
- Data acquisition, analysis on sensor data on **MySQL**, Research on various medical device standards, rules, and norms.

**Cognizant Technology Solutions: Software Engineer**　　　　　　　　　　　　　　　**August-2016 to July-2018**

- Worked on Agile Scrum Methodology. Followed sprints, sprint planning, daily stand ups, product demonstrations, retrospective sessions.
- Implemented functionalities in **Visual Studio** for developing and integrating with Report Viewer using **C#, ASP.NET, MySQL**.
- Optimized Code to make Cross-Application RESTful API calls to fetch required data.
- Strong troubleshooting and debugging skills using error stack traces, visual studio debugger.
- SQL Profiler to investigate the RPC parameters and responses and code control flow knowledge.
- Authored complex, Template based Stored Procedures, Functions and Triggers to efficiently transact with SQL server.
- **Slashed** the **latency** and **improved** the **efficiency** of **generating reports** by **15%** by **optimizing existing code structure**.
- Involved in architecting a **CI/CD pipeline** to deploy the application on different environments (Test, UAT, Production) on **AWS** through **TeamCity**.
- Experience using LINQ, Lambda Expressions, Arrow Functions for writing concise and readable code to filter and bind data to UI control

## PROJECTS:

### IoT Simulator & Smart Hub:

- Building a scalable and responsive web application for an IoT Smart Hub using **Java, JavaScript using React, CSS, HTML**.
- Developed RESTful microservice API's using the publisher-subscriber pattern and the **Eclipse Paho Java Client**.
- Practiced Test-Driven Development of features through JUnit test classes.
- Extensively used **Spring boot, Git**, **Gradle**.
- Using **MongoDB** as the database. Secured the communication via **TLS Protocol**.

### SmartBrain App: Face Detector:

- Developed an application to detect faces in an image using the clarifai API. The app was created using **React JS, Kotlin**, Tachyons CSS toolkit. Used **Node.JS** for functional decisions and **POSTGreSQL** for data storage.
- Application was deployed to **Heroku** server to demonstrate functionality.
- Secured the Website with HTTPS protocol via SSL certificates.

### Harcourt Online Tracking System:

- Developed and maintained a website to manage the vendors licenses and asset data.
- Implemented **crystal reports, excel sheets, Microsoft reporting tools** to generate reports from the applications.
- Used C# on **ASP.NET with CSS3, JavaScript, HTML5** for creating the application, was used for the frontend.
- **MySQL** as the backend database through SSMS and integration through SSIS.
- Implemented a messaging workflow using **MSMQ**.