

SACHIN RAJA

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EDUCATION:

Illinois Institute of Technology - Masters in ECE; Major: Computer Engineering

August 2018 - May 2020

Visvesvaraya Technological University - BE in Electrical and Electronics Engineering

August 2012 - July 2016

TECHNICAL SKILLS:

Core Programming Languages:	Python, C#, C/C++, Java, GoLang.
Backend Technologies:	Spring Boot, NodeJS, .NET framework 4.0, ASP.NET Core, Maven, Flask, Apache Spark.
Frontend Technologies:	JavaScript: ReactJS, HTML5, CSS3, Bootstrap.
Database Technologies:	MySQL, PostgreSQL, MongoDB (NoSQL), SQLite3.
Build/Deployment Technologies:	Gradle, Azure, AWS, Kubernetes, Docker Containerization.
Testing Tools/Frameworks:	XUnit, JUnit, Mocha/Chai, Cucumber.
Protocols:	TCP/IP, MQTT, HTTP/S, FTP, VoIP, DNS, XBee, SSL.
Tools Used:	GITHub, JIRA, TFS, Crystal Reports, Log4j, WireShark, Jenkins.
Operating Systems:	UNIX/Linux OS Kali and CLI, Raspbian, Windows.
IDE/Editors Used:	Visual Studio/Code, Jupitor Notebook, NotePad++, Eclipse, IntelliJ.
Area of Interest:	Software Engineering, Algorithms and Data Structures, Computer Architectures, FaaS.

WORK EXPERIENCE:

MetriTrack Inc.: Engineering Intern

August-2019 to May 2020

- Developing and supporting an application using **C#, React JS** on .NET framework 4.0. Issues with the application were reported immediately.
- Implementing firmware in C/C++ used for hardware testing, Unit testing, drafting hardware test protocols, procedures.
- Data acquisition, analysis on sensor data on SQL and MatLab. Install, configure, and manage Jenkins to build and test versions. Automate the daily security scans on systems and update the regression suites accordingly.
- Contribute/Recommend new tools for assessment, security, and product validation. Monitor and oversee the completion of daily backups, batch jobs.

Cognizant Technology Solutions: Software Engineer

June-2016 to July-2018

- Developed the code to maintain a **C#** application on **.NET Core** on the Microsoft Stack. Used MySQL server relational databases achieving authentication and authorization for the application. Fixed performance issues of crystal reports and improved the efficiency of generating reports by 15%.
- Administered multiple projects in **Java, Angular JS, Spring MVC**. Provided L3 and L4 Support to the application fixing issues.
- Translate stakeholder requirements into over 10 different tangible deliverable such as functional and technical specifications, user cases, user stories, workflow/process diagrams, data flow/data model diagrams. Analysis and generation of custom complex quarterly reports as per the client's requirement.
- Research emerging technologies, trends, and tactics. Implemented the new methodologies by selecting the latest technologies to accomplish the existing workflows.
- Install, configure and Manage Jenkins to support CI/CD model in different environments (QA, UAT, Prod). Running batch jobs, data cleansing, data migrations in to environments.

PROJECTS:

IoT Simulator & Smart Hub:

- Building a scalable and responsive web application for an IoT Smart Hub for all commercial IoT devices irrespective of the make using **Java, JavaScript using React, CSS, HTML** on the **spring boot** application framework.
- Developed RESTful API's using the publisher-subscriber messaging pattern and the MQTT Broker we update states thorough out the application in real time. Practiced Test-Driven Development of features through Junit test classes and log4j for application logs. 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**, 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 Core with CSS3, JavaScript, HTML5** for creating the application, was used for the frontend and **MySQL** as the backend database through **SQL Server management studio**.