

RADHA KRISHNAN SWAMYNATHAN

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[LinkedIn Profile](#)

SUMMARY:

- Seasoned Software Engineer with over 6 years of experience in developing software applications in Java and .NET platforms.
- Strong analytical skills, collaborative mindset and well versed in various tools, frameworks, and libraries across all the aspects of the software development lifecycle.
- Proficient in various programming languages such as: JavaScript, Python, TypeScript, C#, and Java.
- Seeking a position wherein I can utilize my technical skills in solving real-world problems through code.

PROFESSIONAL EXPERIENCE:

Software Development Engineer

July 2022 – August 2023

Amazon – Toronto Ontario

- Collaborated with stakeholders to design, develop, test, deploy, integrate, and monitor multiple scalable and robust Java-based microservices hosted in AWS Cloud Environments through Cloud Development Kit (CDK).
- Developed end-to-end scalable business workflows in cloud by seamlessly integrating several microservices and various AWS services.
- Designed and developed RESTful APIs using industry-standard specifications such as Open API, Swagger, or Smithy based on the requirements of the microservice, and chose suitable hosting options such as API-Gateway for external access and Java Client library for internal consumption.
- Implementing automated unit, integration and load testing using tools such as Jest, Selenium and Cucumber. Also implemented CI/CD processes for multiple pipelines in the microservice family. Ensured stability of microservices by adding singular and AWS CloudWatch Metrics and Alarms surrounding.
- Scaled the infrastructure based on traffic demand on special occasions such as Prime Days.
- Technical Stack:
 - Programming Languages: Java, TypeScript, JavaScript and Python
 - Frontend: React, Redux, Saga, TypeScript, Webpack and Harmony (Amazon internal)
 - Backend: Java (Spring Boot)
 - Databases: MySQL Workbench, DynamoDB, AWS RDS, Redis (AWS Elasti-Cache)
 - Big Data Tools: PySpark, SparkSQL, Scala
 - Testing: Jest, Selenium, Cucumber
 - Cloud: AWS Services such as S3, SQS, SNS, Lambda, ECS, EC2, Step Functions etc.

Senior Software Developer – Scrum Master

January 2018 – August 2020

Hexagon AB – Hyderabad, INDIA

- Designed, developed, integrated, and monitored SaaS (Software as a Service) web applications, built using Microsoft technologies within .NET SDK and Microsoft Azure.
- Developed and integrated multiple RESTful and GraphQL APIs with .NET Framework corresponding to user actions from the GUI and the product workflows.
- Developed complex GUI workflows by leveraging various JavaScript libraries such as React, Redux, Redux-Saga, WebGL, Webpack, Babel etc.
- Explored various design patterns for cross product integrations and scaled the services as required.
- Experience in leading the team as a scrum master and ensured the team's development and testing deliverables are properly planned, calibrated, and communicated to the product owner and the development manager. Also streamlined the CI/CD processes to ensure stability of the product applications.
- Technical Stack:
 - Programming Languages: C#, JavaScript and TypeScript
 - Frontend: ReactJS, Redux, Saga, WebGL, SASS
 - Backend: Microsoft .NET Web-API, .NET Core, Entity Framework, LINQ
 - Databases: Microsoft SQL Server and Oracle
 - Versioning Control: Git and Microsoft Team Foundation Server
 - Cloud environment: Microsoft Azure

Associate Software Engineer

August 2015 - January 2018

Tech Mahindra Ltd. – Hyderabad/Chennai, INDIA

- Interacted with the clients to design, develop and deliver multiple responsive Web Applications aligned to the requirements built using Microsoft .NET and Java Script frameworks.
- Technical Stack:
 - Programming Languages: C#, Python, JavaScript and TypeScript
 - Frontend: HTML, CSS, SASS, Bootstrap, jQuery, React, Angular, Webpack, Jest
 - Backend: Microsoft .NET MVC, Entity Framework and Flask
 - Database: Microsoft SQLServer

Computer Networking Intern

May 2013 - July 2013

Hindustan Petroleum Corporation Ltd. – Hyderabad, INDIA

- Used CISCO's LAN Management Solution tool which visualizes topologies and the networking devices to

configure and troubleshoot the network devices such as CISCO L3/L4Switches and Routers.

EDUCATION:

M.Eng. Electrical and Computer Engineering

2020-2022

University of Ottawa: Ottawa ON

- Specialization Area: Artificial Intelligence, Computer Vision, Machine Learning and Data Science.
- Projects: Designing and building a Hostile Environment Navigation Robot; Vehicle Pose Estimation through Visual Odometry; Pedestrian Detection and Obstacle Avoidance using OpenCV; Deep Learning based MRI Image Segmentation to detect Brain Tumors.

BTech + MTech, Electronics and Communication Engineering

2010-2015

GITAM University: Hyderabad, India

TECHNICAL PORTFOLIO:

- **Programming languages:** Python, C#, Java, JavaScript, TypeScript, C++ and MATLAB.
- **Front-end technologies:** ReactJS, Redux, jQuery, Angular, HTML, CSS, SASS.
- **Back-end technologies:** Java (Spring Boot), .NET Framework, Flask, Node.JS
- **Databases:** Microsoft SQL Server, AWS DynamoDB, AWS Elasti-Cache, MySQL Oracle RDBMS.
- **Cloud Computing:** AWS and Microsoft Azure.
- **Machine Learning:** NumPy, Pandas, Scikit-Learn, TensorFlow and OpenCV.
- **Operating Systems:** Windows, Mac, and Linux.
- **Versioning Tools:** Git, GitHub, Team Foundation Server, SVN