ABHISHEK KARTHIK MANIKANDAN

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PROFILE

Passionate Software Engineer with 4+ years of experience in developing scalable websites/ applications using wide range of frontend and backend skills. Seeking full-time roles to further enhance my full stack development skills.

EDUCATION

Master of Applied Computer Science, Dalhousie University   Expected 2022
Relevant Coursework: Adv Topics in Software Development, Data Management Warehousing and Analytics, Adv Topics in Web development, Adv Topics in Cloud Computing, Adv Topics in Network Security and Applied Machine learning.

Bachelor of Electronics and Communication Engineering, Anna University   2013 - 2017

SKILLS

Technical Skills	Angular, ReactJs, VueJs, NodeJs, GraphQL, Tensorflow, Keras, Scikit-learn
Languages	Java, Python, Javascript, Typescript, HTML, CSS, Yaml
Frameworks	SpringBoot, Express.js
Databases	PostgreSQL, MySQL, MongoDB, Firebase
Platforms	Docker, Kubernetes, GCP, AWS
ML Expertise	NLP, Classical ML, Deep learning, Clustering and Bagging, Boosting Techniques

EXPERIENCE

Software Developer   May 2022 - Aug 2022
Ayogo Health Inc   *Vancouver, BC*

- Developed user analytics module with AWS Databricks that facilitated in extracting meaningful insights from user state data using Spark SQL and AWS.
- Full stack development comprising of a complete Saas product using VueJs, Serverless framwork and GraphQL.
- **Used**: VueJs, NodeJs, Python, AWS, Swagger docs, AWS DynamoDB, GraphQL, Spark Databricks

Teaching Assistant - Intro to Web Design and Development   Jan 2022 - Apr 2022
Dalhousie University, Canada   *Halifax, NS*

- Conducted weekly Labs on ReactJS, HTML, CSS and Javascript for a class of 140 undergraduate students and guided.
- Created content for the course. students with the best practices in writing clean code with re-usability.
- **Used**: ReactJs, NodeJs, Javascript, HTML, CSS

Development Engineer 2   Jan 2021 - Jun 2021
Comcast India Engineering Center I LLP   *Chennai, Tamil Nadu, India*

- Sole developer, in charge of providing an end to end solution for an portal.
- Gathered requirements, provided solutions, designed and built the application before deploying it.
- Designed the system with cross-browser compatiblity
- Implemented a scalable authorization and authentication system using JWT token
- Achieved 40% growth for developing Xfinity Mobile using Angular, NodeJs, and AWS skills.
- Led refactoring of microservices and microfrontends architecture which led to 75% of enhanced performance.
- **Used**: Angular, Node.js, ELK Stack, Oracle, Neo4j, AppDynamics, Nginx, Swagger docs, Jenkins, Docker

Programmer Analyst   Jan 2017 - Sep 2020

Sanmina-SCI Technology Pvt. Ltd., India   *Chennai, Tamil Nadu, India*

- Full Stack developer in a cross-functional team working on the development of many vital application.
- Renewed the legacy application with a newer technology stack with an emphasis on better user experience and application performance, while simultaneously adding new features to the legacy application
- Refined and estimated User stories as a part of an AGILE team
- Identified and fixed bugs in the production environment to help clear user tickets
- Improved code coverage to 80 percentage, measured through SonarQube by implementing Jest testing framework.
- Led development of 8+ Angular application along with Machine learning use cases for easing manual work.
- **Used**: Angular, Node.js, GCP App Engine, PostgreSQL, TypeORM, SonarQube, Camunda, Tomcat Server, PostgreSQL, PM2, Java, Pentaho, Gitlab CI/CD

ACADEMIC PROJECTS

Amazon Go clone Cashier-less Checkout   Jan 2022 - Apr 2022

Graduate level   [Github]   *Halifax, NS, Canada*

- A e-commerce mobile and web application with a focus on backend and deployment.
- Built RESTful API in NodeJs for the application in the AWS lambda serveless functions.
- Deployed the angular web application using AWS's Elastic Container Service in AWS's Elastic Beanstalk.
- Designed the database for the application in AWS DynamoDb.
- Configured autoscaling and network load balancing for both the applications in their respective environments to ensure fault tolerance and cost management
- **Used**: Angular, Node.js, Python, AWS EC2, DynamoDB, VPC, Lambda, CloudFormation, Elastic Bean stalk, Elastic container Registry, Cognito, Gitlab CI/CD, Heroku

E-commerce Scotia Jewellery Mart   Jan 2022 - Apr 2022

Graduate level   [Github]   *Halifax, NS, Canada*

- Responsive e-commerce application with user interactivity.
- Documented the design in a technical design document using site-mappings and wireframes to help the team with ease of development.
- Orchestrated CI/CD pipeline using Gitlab
- **Used**: React.js, Node.js, Heroku, MongoDB, mongooseORM, Swagger docs, Gitlab CI/CD

University Management System   Sep 2021 - Dec 2021

Graduate level   [Github]   *Halifax, NS, Canada*

- Developed a java program for managing university students and faculties. The functionalities include Authentication, student and faculty profile management,facility booking and Event bidding
- Implemented SOLID principles, test-driven development, design patterns, cohesion and coupling, layer boundaries, refactoring techniques. GitLab and Jira were used for project management.
- **Used**: Java, MySQL, GitLab CI/CD pipeline, JIRA

Custom Relational Database   Sep 2021 - Dec 2021

Graduate level   [Github]   *Halifax, NS, Canada*

- Developed a relational database management system using Java for CRUD operations and transactions with key constraints.
- Implemented options like registration, login , SQL command prompt, custom MySQL dump, and ERD export.
- **Used**:Core Java

References Available Upon Request