

Vignesh Pugazhendhi

☎ +1 (438)-680-4833 | ✉ vickynsp15@gmail.com | in vignesh-pugaz | @irarelycode-dev

EDUCATION

Concordia University

Masters in applied computer science

Montreal, QC

Aug. 2022 – Dec. 2023

Vel Tech Dr.RR and Dr.SR University

B.Tech in computer science and engineering; CGPA

Chennai, India

Jun. 2016 – Apr. 2020

EXPERIENCE

Senior software engineer (contract)

Digival IT Solutions

Feb 2022 – Feb 2023

Chennai, India

Product: Digi Scheduler and Digi Assess

- Contributed to all phases of the product development life cycle, including **system design, implementation** and internal releases.
- Completed a POC on **multi-tenant architecture** and helped migrating entire backend server to a multi-tenant architectural design wherein multiple instances of an application work in shared environment, integrating each tenant physically but separating them logically.
- Restructuring the backend architecture during, development phase, into a multi-tenant software-as-a-service **SaaS** architecture.
- Design and code scalable an REST APIs in **Node.js** and **Spring Boot** with unit testing libraries such as **jest** and **JUnit**.
- Used **AWS** services like **S3, Route53, Servless, SQS** using SDKs for **Javascript** and **Typescript**.
- Designed and developed UI dashboard components in **React.js** to monitor each client's usage and statistics. Carried out unit testing using **jest**. **Test coverage** percentage upto 95 percent
- **Led a team** of 3 backend developers to develop worker services and implement bull queues in nodejs.
- **Led a team** of 2 frontend developers to migrate few pages of SPA UI elements to material UI specific elements.

Software Engineer Analyst

Tmmmt, SA

Aug. 2020 – Dec. 2021

Chennai, India

Product: Tmmmt

Client :Saudi Arabia

- Worked as a fullstack developer where my everyday tasks include designing and coding scalable **GraphQL** and REST apis in **Node.js** and **Spring Boot**, in a microservice environment along with unit testing each module using **jest** library.
- Worked on coupons, offers and customer support modules, transforming UX design into scalable **React.js** code using **nx monorepo tool**.
- Automated client on-boarding in a **SaaS** architecture using netlify's Open APIs and aws's route53 service.
- Completed a POC on **GraphQL** client's network caching and implemented the same, thereby reducing unnecessary network calls by 45 percentage.
- Trained frontend developers on libraries and frameworks such as GraphQL, CoreUI, MaterialUI, Nextjs.
- Single handedly migrated entire front-end code template from CoreUI 2 to CoreUI3 for store dashboard.
- **Performed code reviews** and was actively involved in brainstorming sessions.
- Performed basic **devops** operations when needed.

Software Engineer

Ameex Technologies Inc.

Apr. 2020 – Aug. 2020

Chennai, India

- Developed scalable REST and GraphQL apis
- Developed responsive UI components in Reactjs 16 using Material UI and chakra UI
- Contributed 20K+ lines of code to an established codebase via Git
- Initialize unit testing from the scratch
- Resolved production issues.

Software Engineer Intern (Data Science)

Ameex Technologies Inc.

Oct. 2019 – Apr. 2020

Chennai, India

- Developed dashboards in Reactjs
- Undergone internal training on AWS,MySQL, Snowflake

TECHNICAL SKILLS

Languages: Java, Javascript, Typescript, Golang ,Python

Frontend frameworks: Reactjs,Angularjs,Angular,Emberjs,TypeScript, JavaScript, SCSS, CSS Selectors, Flex ,Material UI, bootstrap

Mobile: ReactNative

Backend:Spring Boot, Spring MVC ,Spring REST, Spring security,Hibernate, Node.js with Express.js framework (Both monolithic microservices architecture), Nestjs with Express.js framework (Both monolithic and microservices architecture)

APIs: REST, GraphQL

Standards: Design patterns **Build tools:** Maven, Gradle, NPM, YARN

Unit testing libraries: Jest, JUnit, Jasmine

Cloud: AWS, Azure Devops

Architectures: SaaS, microservices, monolithic **Database:** MongoDB, MySQL, Postgres

Scripting: Bash, Python

Container and orchestration stacks: Docker,Docker Swarm,Kubernetes

Third-party integrations: Google Maps, Okta, Stripe , Twilio, Google Firebase cloud functions, firestore, cloud messaging

CI/CD tools: Jenkins, Travis CI

Code quality maintenance : SonarQube, SonarLint

project management tools : Jira

version control system:: git, github , gitlab ,aws code commit

Deployment : AWS (EC2, ECS, API gateway), Vercel, Netlify, Heroku

Messaging : RabbitMQ, SQS, SNS, Redis

Other skills : Agile methodology

PROJECTS

Comparative study of different CNN architectures using pytorch : Comparative study of three different CNN architectures (ResNet,VGG11,AlexNet) for three different traffic sign boards datasets with varying number of classes using image processing and computer vision techniques. Performed hyperparameter tuning to conclude a detailed analysis of the architectures.

Distributed fault tolerant movie ticket booking system : Contributed to my academic group project for the course COMP 6231 Winter 2023. Developed a fault tolerant movie booking system using SOAP webservice distributed system architecture