Deepak Sundar Narayanan

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Education

Master of Science, Software Engineering Systems   Expected May 2025
Northeastern University, Boston, MA
Course Included: Object-Oriented Design, Program Structures and Algorithms, Web Design and User Experience, Cloud

Bachelor of Electrical and Electronics Engineering   Sep 2020
St. Joseph's College of Engineering, Chennai, India   GPA: 3.2

Technical Skills

Programming Languages: Java, JavaScript, TypeScript, Python,C#
Database: SQL, MongoDB, PL/SQL, MySQL
Cloud: GCP (Cloud functions, Autoscaler, VM instance, Cloud Load Balancing, Cloud SQL, Instance Template, Managed Instance Group)
Tools: Git, Postman, Jenkins, JSON, GitHub, GitHub Actions, Swagger, Shell, PowerShell, Bash, Linux, Terraform, Docker
Web Development: React, Node.js, HTML, Spring Boot, Hibernate, CSS, SCSS, Redux, Microservices, jQuery, Tailwind CSS, Angular
Certificates: SAFe5 for DevOps, Infosys Certified JAVA Spring REST Developer (April 2022), SAFe5 Practitioner – Agile

Work Experience

Senior Systems Engineer (Backend Dev-Java Spring, PL/SQL Developer)   Jan 2023 – July 2023
Infosys, Chennai, India
- Crafted Junit and Mockito test cases (unit testing), ensuring robust coverage of the new Feature involving UDP and XML
- Developed an innovative feature harnessing the power of UDP protocol for sending XML files through SOAP services by reducing the run time by 30%, deployed changes through CI/CD pipeline
- Integrated new endpoint to an existing application through REST services including the testcases, employing Test-Driven Development to ensure systematic testing and code reliability for a spring based application

Systems Engineer (Backend Dev -Java Spring, PL/SQL Developer)   Aug 2022 - Dec 2022
Infosys, Stockholm, Sweden
- Utilizing EJB framework (java framework) to build a new batch processing job which was 40% faster than the existing one
- Modified the access resource in a RESTful architecture for a micro-service architecture-based application for cost reduction by 20% of the monthly expenses
- Implemented SonarQube in Jenkins pipeline to enhance the code quality of the production deployments

Systems Engineer (React, Java spring, PL/SQL Developer)   May 2021 - July 2022
Infosys, Chennai, India
- Enhanced the application by resolving more than 50 production incidents and 10 production bugs in PL/SQL and Java code base
- Designed and implemented a secure payment page within a React application, ensuring seamless transactions processing and user experience as part of Minimum Viable Product

Projects

Nammabnb, Northeastern University   Nov 2023 - Dec 2023
- Designed and developed a full-stack application enables the user to list and book the property for both long term and short term
- Boosted security of the payments by integrating Stripe API, while also enabling the application to perform CRUD operation to application
- Integrated the OpenStreetMap API to not only display precise property locations but also to enhance the accuracy during property searches and cloudinary CDN to efficiently store user images and utilized Redux for state management
- Tech Stack used: Next.js , React, Typescript, Nodejs, Redux, MongoDB, Prisma, HTML, tailwind CSS, Express.js(MERN)

Vimaan Airline Management, Northeastern University (Java project)   Nov 2023 - Dec 2023
- Built a java application dedicated to the booking and management of flights using all the java concepts including design patterns.
- Executing the project requirements that dictated exclusive JAVA , Design Patterns implementation, using Java Swing for UI
- Incorporating all Java essentials- multi-threading, collection framework, Stream APIs and file handling through CSV files in the back end for robust integration, also the data structures where implemented without using collection framework.

Webapp (Cloud project), Northeastern University   Jan 2024 – Apr 2024
- Developed a Node.js application with REST APIs for user login, updating and retrieval. And GitHub actions for integration test, deployment of packer image and application logging is done on the VM instance, Used Pub/sub for messaging
- Deployed VPC subnets, cloud Functions, VM template, load balancer, auto scaler, MIG, pub/sub through terraform script

Portfolio Website, Personal   Jan 2024 - Jan 2024
- Designed and developed a Single page web application from the tech stack learned coursework Web design and User Experience
- Implemented Api to fetch the data from the Json for retrieving the work experience and the project information
- Tools, technology used: React, Node.js, Postman, HTML, CSS, SCSS, JSON

CryptoTax, (Java Project), Personal   Apr 2024 - Apr 2024
- Designed and built a calculator to calculate the tax for the de- centralized cryptocurrency by using stack, created a custom stack class, merge sort class for the calculation of tax and sorting transactions based on date
- The current value of the cryptocurrency is fetched using coinmarketcap API and transaction are stored in SQL server