

NIHIL JOSEPH PELLISSERY

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Professional Experience

Deloitte USI, India | Software Engineer

March 2021 - August 2022

- Orchestrated webapp using **React.js** and **Material-UI** to trigger & track data pipelines, improving visibility by **30%**
- Designed **MVC Node.js** based **Backend** for a financial data pipeline enabling logging of pipeline information and tracking both success and failure rates
- Employed **CI/CD** pipeline using GitHub Actions and Packer to automate AMI creation and deploy Node.js webapp
- Executed **IaC** with **Terraform** to provision scalable **AWS** resources, utilizing **ALB** to scale during peak traffic
- Harnessed **Lambda microservices** for transferring CSV and ZIP files to S3 buckets, reducing development time by **20%**
- Collaborated with cross-functional teams to design unit test scripts, which improved the development life for reliable code
- Augmented customer satisfaction with Agile sprints, user feedback loops, and feature toggles, increasing it by **25%**

KPMG Global Services, India | Associate Consultant

September 2017 - March 2021

- Automated sales order creation, to avoid 100 hours of manual entry by developing a React.js webapp with REST API
- Adopted **pagination** and **Redis** for in memory caching leveraging **Node.js**, resulting in a **10%** decrease in API response latency
- Implemented **Jest** for **unit testing** REST APIs, reducing errors by **30%** and improving code reliability
- Customized **AWS CloudWatch** API metrics to measure application load, maintaining uptime during peak periods
- Refactored SF52 federal form submission with a **React.js** web app, integrating REST APIs for PII generation and validation, which reduced workload by **80%**
- Reduced **Oracle DB** SQL processing time by **60%** employing **cursors**, **normalization** and **query structuring** enabling faster monthly accounting data retrieval across projects

Technical Skills

Front-End: HTML / HTML5, CSS / CSS3, SASS, SCSS, JavaScript, TypeScript, React, Redux, Jest
Back-End: Express.js, Node.js, Redis, NoSQL, Python, Spring Boot, Oracle DB, Postgre DB, RESTful APIs, MongoDB, Snowflake
Cloud: AWS, Lambda, GCP, IaC through Pulumi, AWS CDK, Terraform, HCL Packer, Docker
Others: Shell Scripting, Linux/Unix, Git Bash, GitHub Actions, CI/CD

Education

Northeastern University, Boston, MA - Master of Science, Information Systems

September 2022 - May 2024

Relevant courses: Web Development, Network structures and Cloud computing, Object Oriented Design

University of Mumbai, Mumbai, India - Bachelors in Engineering in Computer Engineering

August 2013 – May 2017

Relevant courses: Data Structures and Algorithms, Web Technologies, Artificial Intelligence

Academic Projects

Cloud Deployment & Management | Node.js, AWS, Packer, Terraform, CI/CD

September 2023 - December 2023

- Formulated a **AssignmentHub** module using **Node.js**, **Express.js**, **Postgres** and **Sequelize ORM**
- Modeled AWS resources like (**VPC**, **DNS**, **EC2**, **ASG**, **ALB**, **RDS**, **S3**, **DynamoDB**, **Lambda**, **SNS**) leveraging Terraform attaining webapp uptime by **65%** and horizontal scaling using peak traffic
- Built **microservices** using **Lambda** for file transfers to S3 and automated email services, reducing server load by **50%**
- Configured **AWS Cloud Watch** with API metrics to capture, log real time behavior of the web-application
- Fortified web security with **password hashing (bcrypt + Salt)** and basic authentication
- Enforced **CI/CD** pipeline with **AWS Launch Template** and **GitHub Actions** to rollout code changes without downtime

Carpooling Application | MongoDB, Express.js, React.js, Node.js

January 2023 - April 2023

- Assembled a ridesharing webapp with **React.js** frontend and **Node.js** backend reducing gas consumption by **50%**
- Linked **Google Maps API** and **Haversine algorithm** for efficient route planning and cab booking
- Strengthened user data protection and confidentiality with **JWT tokens**, **Redux** and **bcrypt encryption**
- Integrated **Socket.IO** for instant ride approval and confirmation notifications, improving communication and reliability

CrossFit | MongoDB, Express.js, React.js, Node.js

September 2022 - December 2022

- Strategized and devised **webapp** making using of **MongoDB**, **Node.js**, **Express.js** for efficient and highly scalable **RESTful APIS**
- Facilitated **WebSocket** for real-time user updates and interactive notification, significantly elevating user engagement
- Implemented dynamic UI using **React.js** with **Redux** and **React** router for state management and client side routing

E-Adoption Application | Java, Java Swing, DBO4, UX-UI

September 2022 - December 2022

- Constructed an e-adoption portal using Java Swing to facilitate efficient electronic adoption processes
- Used JavaFX to create a GUI that supports actions such as viewing parent and mother dashboard and creating users
- Utilised OOPS practices such as inheritance, polymorphism to create and maintain different account types and data