

NISHI SANJAY PANCHOLI

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EDUCATION

Master of Science, Information Systems

Jan 2023 - May 2025

Northeastern University, Boston, MA

Relevant Courses: Algorithms, Cloud Computing, User Experience Design/Testing, Software Design Patterns

Bachelor of Engineering, Information Technology

Aug 2017 - Sep 2020

University of Mumbai, Mumbai, IN

WORK EXPERIENCE

Software Engineer Intern | Onyva Solution | Boston, MA

Jan 2024 – Sep 2024

- Built website for dog grooming industry using **PHP**, **Laravel**, **Kafka** microservices, transitioning **MERN** stack, handling 3x increase in user traffic, improving system scalability, achieving consistent response time under 200ms
- Derived custom booking algorithm in **Python**, reducing time gaps by 30%, integrating **Laravel APIs** with **Node.js**, **React.js** for responsive website, handling 1,500+ monthly appointments leveraging agile methodologies
- Optimized **AWS EC2**, **RDS** services, leveraging **CloudWatch** for enhanced observability, resulting in high-availability setup with 42 minutes of annual downtime achieving robust infrastructure for global grooming platform.
- Orchestrated dynamic questionnaire algorithm using **Python CART** technique, categorizing dogs by coat/breed for personalized memberships, boosting customer retention and adoption by 25% and 40% respectively

Software Engineer | Larsen And Toubro Infotech Mindtree | Mumbai, IN

Jan 2021 – Dec 2022

- Constructed an asset management system for multimedia companies, managing data for 8+ production houses and 6.3 million assets using **MongoDB**, **PostgreSQL**, and **Airtable**
- Administered contributor portal for editors, auditors, and stakeholders using **React** frontend, **Java** backend, streamlining publication management for 279+ publications, leveraging **jQuery** for dynamic content updates
- Mapped **GraphQL** to **RESTful API** services using **Java**, reducing retrieval times by 14%, enhancing backend efficiency
- Delivered a one-stop coverage portal consolidating multiple client systems under a unified platform, ensuring efficient data handling and security with **Okta**-based authorization utilizing **JIRA** and **Git** for version control
- Established **CI/CD** pipelines automating deployment, improving delivery efficiency by 40%, saving 25% in operational costs through minimized downtime
- Conducted unit and integration testing with **Feather.js** and **Jest**, enhancing system reliability and handling 5000+ hourly queries with less than 1% critical failure rate

TECHNICAL SKILLS

Languages: JavaScript, Python, Java

Databases: MySQL, PostgreSQL, MongoDB, Airtable

Web Technologies: React, Angular, Node.js, HTML, CSS, REST, AJAX, PHP, RESTful APIs, CI/CD, Jest, Feather.js

Tools/Frameworks: Express.js, Spring, jQuery, ASP.NET, Kafka, Django, Git, Postman, Jira, Figma, AWS, GCP, S3, RDS

PROJECTS

Medical Web Application | React, Typescript, Node.js, RESTful APIs, ARM Algorithm, Java

- Engineered website for online medicine ordering using **React**, applying Association Rule Mining in **Java** for 60% more data insights, integrated with **Django**, **RESTful APIs**, **PostgreSQL**, and **Node.js**.

Digital Asset Management Website | HTML, CSS, Angular.js, Node.js, Express.js, JavaScript, SQL

- Formulated asset management platform using **AngularJS**, **Node.js**, **SQL**, **Feathers.js**, and **Terraform**, enabling efficient handling of large datasets with robust testing and automated infrastructure utilizing **MVC** architecture

Insurance Portal | JavaScript, React, MongoDB, JSON, OpenAPI, Express.js, Git, Jira

- Consolidated insurance portal using **MERN** stack, implementing robust **JSON APIs**, utilizing **MVC** architecture, and establishing **CI/CD** pipelines for **Agile** sprint-based deployments integrating **Jira** and **Git**.

Cloud Hosted Web Application | AWS, EC2, RDS, NodeJs, RestAPI, Pulumi(IaaS)

- Deployed scalable cloud-hosted web application using **AWS EC2**, **RDS**, and **Pulumi**, monitoring performance with **CloudWatch**, optimizing **Load Balancer** for high availability, and automating continuous deployments via **GitHub Actions** and **CI/CD** pipelines for rapid production updates, reducing downtime by 20%

Portfolio | Next.js, NodeMailer, Typescript, Tailwind, Node.js, React, Domain DNS

- Crafted responsive portfolio independently using **Next.js**, **TypeScript**, **Tailwind**, and **Framer Motion**, hosted on **Vercel** with **Domain DNS**, with a **NodeMailer**-powered contact form for seamless communication with potential clients