HET PATEL

Boston, MA | patel.hetas@northeastern.edu | (857)544-9003 | linkedin.com/in/het1074

Education

Northeastern University, Boston, MA   **Expected May 2025**

Master of Science in Information Systems

Relevant Coursework: *Application Engineering and Development, User Experience Design and Testing, Web Development, Database Management and Design*

Gujarat Technological University, Gujarat, India   **Aug 2016 – Jun 2020**

Bachelor of Engineering in Computer Engineering

Relevant Coursework: *Object Oriented Programming, Data Structures and Algorithms, Programming with C++, Python Programming, Compliers, Digital Electronics*

Technical Skills

Programming Languages: C++, Python, Java, JavaScript, TypeScript, SQL
Web Technology: NodeJS, ExpressJS, NestJS, HTML5, CSS3, ReactJS, Redux NextJS, GraphQL
Database Technology and ORM: MySQL, PostgreSQL, MongoDB, DynamoDB, Typeorm, Sequelize, Elasticsearch, Redis
Version Control & DevOps: Git, GitLab CI, AWS(Lambda, S3, EC2), Docker
Test Automation & Other Tools: Selenium, Mocha, Postman, Visual Studio Code, Swagger, JIRA

Work Experience

Silver Webbuzz Private Limited   **Sept 2021 – May 2023**

Software Developer   *India*

- Enhanced Next.js app by implementing GraphQL, leading to streamlined API interactions and robust schema design
- Created e-procurement site with 150+ CRUD operations and incorporating JWT for secure, role-based access
- Spearheaded Selenium and Mocha automated testing, boosting code coverage to 75%, improving software reliability
- Engineered a NestJS(NodeJS Framework) application with MVC and microservice architecture, using Docker for containerization and Jenkins for streamlined CI/CD, enhancing scalability and deployment efficiency
- Integrated Elasticsearch with NodeJS and MongoDB application using REST APIs, elevating search response by 40%
- Utilized Python and OpenAI API to automate patient data extraction from PDFs, reducing manual data entry by 65%

ShineStar Web Solutions   **Dec 2019 – Apr 2020**

Software Development Intern   *India*

- Modernized React App interface with Material UI for a user-friendly and responsive design
- Employed custom React hooks, decreasing code duplication by 60% and accelerating feature development by 30%
- Refined MongoDB indexing with compound indexes and optimized query plans, reducing API response times by 500ms
- Actively engaged in Agile sprints and stand-ups, catalyzing efficient project delivery and improving team workflow

Projects

Serverless Media Organizer | *NodeJS, AWS Lambda, AWS S3, Github Actions*

- Designed a serverless media file processing solution with NodeJS and Lambda, minimizing processing latency by 50% and boosting file organization efficiency by 70%
- Implemented custom Lambda functions for smart media file categorization through content and metadata analysis
- Configured GitHub Actions with AWS SNS for continuous integration and real-time deployment alerts

Airplane Management System | *Java Swing, MongoDB, Google Maps API*

- Built a Java Swing Airline Management System with MongoDB, enabling multi-user role-based access for effective workflow management
- Leveraged MongoDB for data handling, resulting in robust data integrity and 40% increase in transaction processing
- Enhanced the System with Google Maps API for real-time flight tracking, improving operational awareness and safety

Waste Disposal Management | *ReactJS, NodeJS, Ant Design, Firebase, Arduino*

- Engineered a waste collection scheduler using the Traveling Salesman Problem (TSP) algorithm, achieving a 70% improvement in resource allocation.
- Improved service reliability by 40% with a ReactJS real-time monitoring interface.
- Authored NodeJS analytics module utilizing Firebase and Arduino IoT data, enhancing waste collection route efficiency.