

# NAVIN SHARMA

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## EDUCATION

### Northeastern University

Sep 2022 – May 2024

Master of Science in Information Systems

Relevant courses: Application Engineering, Web Design and User Experience, Cloud Infrastructure, Data Structures

### University Of Mumbai

Aug 2015 – May 2019

Bachelor of Engineering in Computer Engineering

Relevant courses: Object-Oriented Programming Methodology (OOP), Relational Databases (RDBMS), Web Technologies Laboratory

## SKILLS

Programming Languages:	Java, Python, JavaScript, TypeScript, Shell Scripting
Web Technologies:	HTML5, CSS3, SASS, Express.js, Redux, REST API, Node JS, React JS, Spring MVC, Spring Boot
Tools and IDE:	Git, Kubernetes, Docker, Postman, NetBeans, VS Code, Apache Kafka, Jira
Databases:	MySQL, PostgreSQL, Microsoft SQL Server, MongoDB (NoSQL)
Cloud Technologies:	Pulumi, Packer, Amazon Web Services, Google Cloud Platform, Terraform, S3, EC2, VPC, LightSail, Load Balancer

## EXPERIENCE

### Engineering Intern | UnitedHealth Group

Jun 2023 – Aug 2023

- Refactored synchronous process written in **Java** into an asynchronous workflow using **AWS SQS**, thereby establishing clear service boundaries and improving the system's scalability.
- Implemented retry mechanisms for each subprocess by leveraging AWS SQS's built-in retry capabilities, enhancing the system's fault tolerance and ensuring reliable processing of tasks.

### Engineer | QualityKiosk Technologies

Mar 2021 – Jul 2022

- Programmed **REST API** using **Java SpringBoot** to handle all CRUD operations, **JWT** token management for secure authentication.
- Created responsive user interface using **HTML5, CSS3 Bootstrap, React**, employing state management libraries, hooks and provided optimal user interface solutions for customer, thus increasing user interaction by **30%** across multiple platforms.
- Engineered a dynamic dashboard using React and APIs, increasing visibility into employee performance by **35%** and enabling data-driven decision-making for a team of **150+** employees.
- Enhanced application performance with server-side caching and secure communications, employing **SSL/TLS** protocols. Integrated **OAuth2** for secure authentication and authorization processes.

### Developer | Second Machine Age

Jun 2019 – Feb 2021

- Led a team to develop an end-to-end retail application for managing transactions using **RESTful APIs, Java** (MVC architecture), **JPA** for the backend and **HTML5, CSS3, AngularJS, NodeJS** for the frontend. Ensured data protection of user, using **JWT** authentication standards.
- Designed a user interface with **Angular** for frontend development, implemented a community feature for user engagement, and utilized **Express.js** and the **RESTful API** for the back-end functionality.
- Spearheaded unit and integration testing using **Jest, Mocha**, ensuring Test-driven development (**TDD**) to maintain code reliability, quality.
- Collaborated with cross-functional teams in **Agile** sprints to deliver features on time, benefiting more than **18,000** users.

## PROJECTS

### Stock Market Portfolio Management System

Feb 2024 – Mar 2024

- Created an advanced portfolio management system using **Java SpringBoot (Gradle)** for backend using design patterns—Facade, Adapter, Builder, and ADTs and **Kafka**, establishing a streamlined and highly responsive real-time data flow.
- Constructed an intuitive UI using **React**, improving user satisfaction by **25%** and reducing onboarding time for new users by **40%**.
- Employed **Postgres** as the database solution for storage and retrieval of user data with precision and security.

### Assignment Management System

Sep 2023 – Dec 2023

- Developed a system with **REST API, Node.js, Express.js**, and utilized **Sequelize ORM** framework for **MySQL** database interaction.
- Enforced strong authentication and utilized **Git** for version control, employed **CI/CD** pipeline using **GitHub actions workflow**.
- Created auto scalable **AWS** infrastructure with **Pulumi**, enabling continuous delivery across AWS (**S3, Serverless, IAM, SQS, load balancing, SSH, auto scaling, CloudWatch, Route 53, RDS**) and **GCP** (**storage bucket, service account, IAM binding**).
- Developed **AWS Lambda** service to trigger email notifications to user, utilized **AWS DynamoDB** for tracking delivery status.
- Automated the **creation AMIs (Debian Linux)** using **Packer**, ensuring consistent, version-controlled environments.

## LEADERSHIP

- Led a team of **100+** students as **Deputy General Secretary** for the Computer Society of India's (CSI) tech fest.