

Parva Patel

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Education

Dalhousie University (Halifax, NS)

Master of Applied Computer Science

Jan. 2025 – Present

L.J. Institute of Engineering and Technology (Ahmedabad, India)

Bachelor of Computer Engineering

July 2020 – June 2024

Technical Skills

Languages: Java, C#, Python, JavaScript, TypeScript, SQL

Frameworks & Technologies: .NET, SpringBoot, ReactJS, AngularJS, Node.js, HTML, CSS, REST APIs, JSON

Testing Tools: JUnit, Mockito, Selenium, SpecFlow, MockMvc, AssertJ

Databases: MySQL, PostgreSQL, MongoDB, Oracle

Cloud & DevOps: AWS, Azure DevOps, CI/CD, Docker, Kubernetes

Tools: Git, JIRA, Visual Studio, VS Code, IntelliJ

Concepts: Data Structures, Algorithms, Agile Methodologies, SOLID Principles, Object-Oriented Design, Microservices

Experience

Software Developer

June 2024 – November 2024

AppTrait Solutions (Ahmedabad, India)

- Developed and maintained robust, scalable mobile applications for iOS and Android platforms using Java and Swift in an Agile environment.
- Collaborated with cross-functional teams to translate business requirements into technical solutions, participating in design and architectural discussions
- Engineered automated test suites using Selenium, reducing manual testing efforts by 60% and improving product reliability.
- Implemented CI/CD practices to streamline deployment processes and ensure continuous integration of new features.

Full-Stack Developer Intern

Jan. 2024 – April 2024

SilverTouch Technologies (Ahmedabad, India)

- Developed a real-time chat application using AngularJS and TypeScript, increasing user engagement by 40%.
- Built RESTful APIs and implemented responsive front-end components using modern web technologies.
- Optimized application performance through code refactoring and implementation of efficient data structures.
- Participated in daily stand-ups and sprint planning sessions as part of an Agile development team.

Projects

HelloDoc | Typescript, ReactJS, Nodejs, MongoDB, CI/CD, Docker GitHub

May 2025 - August 2025

- Developed a telehealth platform with appointment booking, doctor-patient chat, and secure video consultations.
- Improved system performance by 60% through backend optimizations and code refactoring, reducing response times significantly.
- Built responsive dashboards using Tailwind CSS and integrated Google Maps for location-based doctor searches.

DalScooter | AWS, Python, ReactJS GitHub

May 2025 - August 2025

- Designed a serverless scooter booking system with AWS Lambda, API Gateway, and DynamoDB, incorporating 3-step MFA for robust authentication.
- Built a real-time chatbot and notification system with DialogFlow, SQS, and SNS.
- Implemented sentiment analysis dashboards (VADER/Looker) with 85% accuracy to deliver actionable real-time feedback.

Snake-AI Game | Python, Pytorch, DQN GitHub

May 2025 - August 2025

- Implemented a Deep Q-Network (DQN) with Target Networks, experience replay, and epsilon-greedy exploration to stabilize training and improve convergence in the Snake game environment.
- Designed a custom reward system to balance short-term gains with long-term strategies, enhancing the agent's decision-making ability.
- Trained and optimized the model using PyTorch, achieving consistent score improvements through hyperparameter tuning.

Dalhousie Marketplace | ReactJS, SpringBoot, CI/CD, MYSQL, Gitlab, Designate Java GitHub

Jan 2025 - April 2025

- Built a secure Spring Boot backend with JWT authentication, Stripe payments, and WebSocket-based chat, applying SOLID principles and reducing boilerplate code by 40% using Lombok and Jackson
- Achieved 85%+ test coverage with JUnit, Mockito, MockMvc, and AssertJ, ensuring reliability of critical features such as bidding and payments.
- Optimized MySQL queries and Spring Data JPA repositories for listings and search, cutting API response times and improving overall performance.