# RONIT BHATIA

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## EDUCATION

**University of Florida** | *Master of Science, Computer & Information Sciences* — August 2023 – May 2025
***Coursework**: Advanced Data Structures, Computer Networks, Applied Machine Learning* — *GPA: 3.5*
**University of Mumbai** | *Bachelor of Engineering, Information Technology* — August 2016 – October 2020
***Coursework**: Data Structures, Internet Programming, Database Management Systems, Operating Systems* — *GPA: 3.1*

## SKILLS

React.js, React Native, Redux, Webpack, Node.js, JavaScript, TypeScript, Jest, HTML, CSS, SASS, C#, ASP .NET, gRPC, GraphQL, AJAX, REST APIs, SQL, MongoDB, PostgreSQL, Redis, RabbitMQ, Microservices, Unix, PyTorch, D3.js, Docker, Kubernetes, Git, AWS, FastAPI

## EXPERIENCE

**Soft Technovations,** *Student Co-op* — February 2025 – May 2025
*Remote, United States*

- Architected an AI-driven ECC to S4/HANA transformation tool projected to cut ETL time by 80% using a FastAPI server, while managing scalable AWS infrastructure (EC2, IAM) and Postgres backend.

**CarTrade Tech**, *Software Development Engineer 2* — October 2022 – July 2023
*Mumbai, India*

Developed & managed full-stack solutions across 3 teams over 2.5 years - Serviced **8 varied .NET microservices**, built **20+ REST APIs,** governed **React mono-repo supporting 2 applications**, monitored releases using CI/CD pipelines & **Grafana**, ensuring 99% availability.

- Led a 5-member team building an app-agnostic retail module, boosting productivity by 20% through **agile cycles** with Jira.
- Achieved 700% rise in leads & 500% growth in auto bookings by implementing **potential lead WhatsApp flow using RabbitMQ**.

**CarTrade Tech,** *Software Development Engineer 1* — October 2021 – September 2022

- **Revamped MySQL table schema** and **Redis key structure**, reducing database calls by 40% and eliminating timeouts.
- Improved development efficiency by 25% by **creating a platform-independent WhatsApp module**, enabling instant and delayed notification sharing with customers. Managed the *Lead Exchange Management* microservice, capable of handling 1M leads daily.
- Achieved 10% hike in leads generated by building a **React-based car comparison tool** https://www.carwale.com/compare-cars.

**CarTrade Tech,** *Associate Software Development Engineer* — November 2020 – September 2021

- Designed **finance page, REST APIs, microservice, and SQL tables** allowing users to check loan eligibility, boosting revenue by 25%.
- Planned & constructed **React-based EMI Calculator page** for carwale.com, which supplemented finance page landings by 15%.
- Enhanced client side and microservice side unit test coverage using **Jest** and **xUnit** from 20% to 85%.
- Boosted developer productivity by 40% by **refactoring and documenting** ~20,000 lines of code into smaller React components.

**CarTrade Tech,** *Software Development Intern* — December 2019 – January 2020

- Created a **Webpack Analyzer** tool, identifying and resolving performance bottlenecks, reducing JavaScript bundle size by 30%.

## PROJECTS

**Fitnet |** *React Native, Fastify.JS, Python, GraphQL, MongoDB, PostgreSQL, AWS, Jira* — June 2023 – Present

- Spearheaded the development of a large-scale fitness app, managing backend, frontend, and infrastructure single-handedly with **React Native front end**, **Fastify** - **NodeJS server**, and **PostgreSQL database** with Timescale DB hosted on AWS EC2.
- Designed and implemented key features including registration and **login flows**, **user profile page** with interactions, **GPS-based workout tracking** and saving, light and dark themes, and a **GraphQL API** utilizing data loader for efficiency.
- Engineered image uploading and serving with AWS S3 and a Python image server for compression, replicated via Cloudflare CDN.

**OSPF Visualizer |** *OSPF, TypeScript, React, HTML Canvas, Jira* — July 2024 – May 2025

- Developed a web application demonstrating a faithful simulation of **OSPF protocol for point-to-point networks.**
- Simulated IP Links for communication between routers, neighbor relationship build-up and tear down, LSA synchronization, aging and refresh mechanisms, and routing table construction using the Dijkstra algorithm.
- Handled neighbor events and topological changes, achieving a true simulation of network convergence to the full state.

**Face Aging App |** *PyTorch, Python* — June 2019 – May 2020

- Used **StyleGAN** with latent space learning to generate realistic 512×512 aged human images after comparing multiple ML models.