Muqaddaspreet Singh Bhatia

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Education

Concordia University   Montreal, Quebec, Canada
Master of Applied Computer Science — CGPA: 3.30/4.33   *September 2023 - May 2025*

Guru Nanak Dev University   Amritsar, Punjab, India
Diploma in French — Marks: 331/400   *August 2022 - May 2023*
Bachelor of Technology in Computer Science — CGPA: 9.03/10.00   *July 2018 - May 2022*

Experience

Nagarro software   January 2022 – July 2023
Software Engineer   *Gurugram, India*

- **Delivered** features for a supplier-facing web app using **Angular (TypeScript, RxJS)**, building **25+** reusable components, forms, and data tables.
- **Reduced** initial load time by **18%** via lazy-loaded routes, **OnPush** change detection, and **RxJS** stream optimizations; improved bundle hygiene and linting.
- **Integrated** REST APIs for e-invoicing flows; collaborated with backend engineers and wrote **lightweight Node.js/Express** helpers and mocks to unblock frontend work.
- **Implemented** unit tests with **Jasmine/Karma** and reached **80%** coverage on new modules; resolved 40+ UI bugs across sprints; built accessible pages (WCAG 2.1) that achieved **90+ Lighthouse** scores for Best Practices.
- **Contributed** to sprint ceremonies and code reviews; assisted two interns with environment setup, component guidelines, and their first tickets.

VMM Education   July 2021 – December 2021
Frontend Developer Intern   *Amritsar, India*

- **Delivered** a **React** "Practice Quizzes" module end-to-end, increasing weekly quiz completions by **28%** for **220** students and reducing first-load time to **1.7s**.
- **Applied Redux** where it added clear value (authentication and learner progress), cutting duplicate API calls by **20%** and speeding page-to-page navigation by **30%**.
- **Added** a focused Jest test suite for key components and reducers, lifting coverage from **25% to 85%** and preventing **10+ regressions** before release.

Leadership & Initiatives

- Deployed a real-time job alert system with **24/7 monitoring** using **AWS Lambda** for automation and **S3** for storage, significantly improving application response time, helping **8** secure jobs notifying them within seconds of job availability.
- Mentored and led a team of **10**, organizing university-wide programming competitions that fostered a culture of innovation and problem-solving, benefiting **100+** students.

Projects

FeastFleet | *React.js, Redux, Jest, JavaScript, HTML, Tailwind CSS, Parcel, Babel* | [Live-Site](#) | [GitHub](#)

- Developed a dynamic food ordering web application using **React.js** integrating live RESTful APIs for real-time menu data fetching, **reducing data retrieval time** by **40%**, and **achieving 95% test coverage**.
- Engineered advanced state management using React Hooks, utilized Parcel and Babel to streamline the build process, **reducing page load times by 35%**, and enhanced UX through lazy loading and efficient component rendering.

TopVidVault | *ReactJS, JavaScript, Redux, Tailwind CSS, Webpack* | [Live-Site](#) | [GitHub](#)

- Delivered a **React** video-platform UI pulling the top **50** trending videos from the live YouTube Data API; optimized rendering (virtualized grid + lazy thumbnails) to reach **1.0s LCP**, with graceful rate-limit handling and error fallbacks.
- Implemented search & suggestions with debouncing (200 ms) and Redux caching, cutting duplicate API calls by **60%**; enforced a bounded chat history (auto-prune to last 250 msgs) to cap memory use and maintain **60** fps under live load.

More Projects: Check out additional impactful projects on my portfolio at [muqaddaspreet-singh.netlify.app/](#)

Technical Skills

Languages: HTML, CSS, JavaScript, C++, Node.js, Python, Java, .NET, C#, SQL, TypeScript
Frameworks/Libraries: ReactJS, Angular, Express, MongoDB, Mongoose, Tailwind CSS, Redux, React Router, RESTful APIs, RxJS, Bootstrap, MySQL, Maven, JUnit, NPM
Tools: Git, Bitbucket, Jira, Linux, CI/CD (Github Actions), Postman, Swagger, Docker, S3, Parcel, Webpack, Babel
Concepts: Version Control, Object Oriented Programming Systems, Data Structures and Algorithms, Software Life Cycle, Design Patterns, SOLID Principles, Performance Optimization, Agile Development, Distributed System Design