

Simranjeet Kaur

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PROFESSIONAL SUMMARY

Dedicated and driven Full Stack Developer with over **4 years** of comprehensive experience in front-end and back-end development. Skilled in designing and developing dynamic web applications using a diverse range of technologies, including AngularJS, **Angular**, **React.js**, HTML5, CSS3, JavaScript, jQuery, **Node.js**, and Bootstrap. Proficient in creating seamless, cross-browser compatible applications and experienced in developing serverless web architectures via API Gateway.

Expert in utilizing modern development methodologies such as **Agile (SCRUM)** and Test-Driven Development (TDD). Possesses deep knowledge in a variety of programming languages and frameworks including Node.js, React.js, **TypeScript**, **Next.js**, and **GraphQL**. Strong foundation in database management and operations with **MySQL**, **MongoDB**, and **PostgreSQL**. Proven ability to thrive in dynamic environments, leveraging technical skills to build scalable and innovative solutions.

TECHNICAL SKILLS

Programming Languages: JavaScript, Typescript, HTML5, CSS3, Next.js, Java, Python

Frameworks: Node.js, Express, React, Angular, Material UI, Tailwind, sass

Testing Tools: Selenium WebDriver, Rest Assured, JUnit, TestNG, Cypress, Postman, Jest, Mocha, Chai.

Test Automation Frameworks: Cucumber, Page Object Model (POM)

Test Management Tools: ALM, JIRA

Continuous Integration/Build Tools: Jenkins, Maven

Databases Testing: SQL, Oracle DB, PL/SQL, NoSQL – MongoDB, Firebase

Cloud technologies : AWS, Git, CI/CD, Docker, Azure

Concepts: Microservices, Distributed Systems, Frontend, Backend, Full-Stack, OOP, Data Structures.

Agile Methodologies: Scrum

Other: MVC, JSON, XML, SOAP, RESTful APIs.

WORK EXPERIENCE

Full Stack Developer (Co-op)

Cence Power, Markham, Ontario, Canada

Sept 2022 – Dec 2022

Project: IoT Platform Development

Client: Cence Power

Outline: Spearheaded the development of an IoT platform using AWS IoT for enhanced sensor data visualization and control, focusing on IEQ, motion, and water flow sensors. Achieved robust AWS IoT integration to facilitate real-time monitoring and interactive charting, improving system responsiveness and user experience. Designed user-friendly interfaces and scalable architectures, significantly boosting operational efficiency and data management capabilities.

Technologies: Angular | MongoDB | Nodejs | TypeScript | GraphQL | Sass | Express | Jest | Next.js | AWS

Responsibilities:

- Developed and maintained robust web applications using the **MEAN stack** (MongoDB, Express.js, Angular, Node.js), significantly enhancing system functionality and user experience.
- Implemented responsive web designs using Angular, significantly enhancing client-side performance and user engagement, resulting in a **40% increase in user session** duration and a 30% reduction in page load times.
- Optimized MongoDB databases, increasing data security and **performance by 30%**, ensuring robust data management and integrity.
- Managed **AWS cloud services** for cloud deployment, effectively establishing **CI/CD pipelines** and containerization with **Docker**, reducing deployment times by 25% and enhancing system reliability.
- Engineered server-side logic and **RESTful API endpoints** using Express.js and Node.js, **integrating TypeScript** and **GraphQL** for seamless communication.

- Designed and implemented real-time features **using AWS Lambda** and scalable messaging solutions with **AWS SES and SNS**, enhancing real-time data handling capabilities.
- Authored and executed comprehensive **unit tests using Jest, Cypress, Mocha, and Chai**, which **reduced bug rates by 20%** and ensured high software reliability.
- Played a **key role in Agile development cycles**, driving sprint planning and rapid deployment strategies that improved project delivery timelines.
- **Facilitated cross-functional collaboration** with design and product management teams to align project deliverables with business goals, enhancing project cohesion and stakeholder satisfaction.
- **Documented all phases of software development**, improving project transparency and supporting future maintenance efforts with detailed API and architecture documentation.

Software Developer

Ecrubit Consultancy Services, Chandigarh, India

April 2020 - March 2021

Projects: Financial Management Application

Technologies: AngularJS | Nodejs | MongoDB | Express.js | Html | CSS | Material UI

Responsibilities:

- Developed robust financial management web applications leveraging AngularJS and Node.js.
- Integrated **advanced graphical elements** using libraries like **Konvajs, Chart.js, and D3.js** for dynamic data visualization.
- Utilized **@ngrx libraries** extensively to manage state, handle effects, and dispatch actions, adhering to industry best practices.
- Authored and maintained comprehensive **unit tests in Jest, Cypress, and Enzyme for front-end**, and Mocha and Chai for back-end validation.
- Engineered reusable methods and functions to improve the automation of testing scripts, focusing on robustness, reusability, and maintainability.
- **Deployed applications on AWS**, implementing CI/CD pipelines and containerization with Docker to streamline development and production workflows.
- Collaborated closely with business analysts and developers to streamline code updates and defect resolution, utilizing **Jira** for project management and issue tracking.

PERSONAL PROJECTS

Real-time Space Launch Tracker:

Technologies: GraphQL, Express, React, Apollo, SpaceX API

Description: Developed a web application to track space launches using real-time data from the SpaceX API. Implemented a **GraphQL** Express server for optimal data handling and integrated **React with Apollo** for a dynamic front-end user experience.

Achievements:

- Engineered and optimized back-end with GraphQL to enhance data retrieval efficiency.
- Created a responsive front-end interface that improves user engagement and accessibility.
- Successfully deployed and tested the application, ensuring high performance and reliability.

MERN Finance Dashboard with Machine Learning Predictions:

Technologies: React.js, Redux Toolkit, Vite, Material UI, Recharts, Node.js, Express.js, MongoDB

Features: Developed a comprehensive finance dashboard to analyze and predict financial trends using machine learning algorithms. Implemented a responsive UI with Material UI and Recharts, managed application state with Redux Toolkit, and set up an efficient backend with Express.js and MongoDB.

Impact: Enabled real-time financial data processing and visualization, improving predictive accuracy and user decision-making capabilities.

Angular/NgRx Medium Clone Project

Technologies: Angular, NgRx, TypeScript, RESTful APIs

Project Overview: Engineered a clone of Medium with advanced features in authentication, state management using NgRx, and modular component architecture. Focused on real-time data handling and seamless API integration.

Key Achievements:

- **State Management:** Leveraged NgRx for efficient state handling, improving app performance and user experience.
- **Component Architecture:** Developed reusable components, enhancing code maintainability and scalability.
- **API Integration:** Managed robust API interactions for dynamic data operations, ensuring secure data transactions.
- **TypeScript:** Utilized TypeScript extensively for type safety and clear interface definitions, increasing code reliability.

ECommerce Application Using Django & React

Technologies: Django, React, Redux, Express, JWT, PayPal API

Overview: Developed an eCommerce application with functionalities including product management, user authentication, and PayPal integration. Focused on creating a robust, secure, and user-friendly shopping platform.

Key Achievements:

- **Full-Stack Development:** Led both front-end and back-end development to ensure cohesive functionality.
- **Security and Payments:** Integrated JWT for security and configured PayPal, enhancing transaction safety.
- **Optimization and Deployment:** Optimized performance using React and Django best practices and managed successful project deployment.

EDUCATION

Post Graduate Certificate in Computer Software and Database Development

Lambton College, Toronto, Ontario, Canada

(Honors: **Graduation Dean's Honor List** | Cumulative GPA: 3.5)

May 2021 – Dec 2022

Bachelor of Technology in Computer Science

Haryana Engineering College, New Delhi, India

(Cumulative GPA: 3.0)

July 2014 – August 2018

CERTIFICATES

- **Microsoft Azure Fundamentals (Az-900)**
- **AWS Certified Cloud Practitioner**
- **HackerRank Rest API (Intermediate) Certificate**
- **HackerRank SQL (Basic) Certificate**

OTHER SKILLS

- **Proficient in Software Development Lifecycles:** Experienced with Agile, Scrum, and Waterfall methodologies, ensuring efficient project execution and management.
- **Adaptive and Independent Worker:** Capable of thriving in fast-paced environments, managing tasks independently with strong problem-solving skills.
- **Continuous Learner and Technology Enthusiast:** Quickly adapts to new technologies, continuously expanding expertise in the latest industry trends.
- **Strong Collaborator with Project Management Skills:** Excellent team player with proven project management capabilities, leading to successful project outcomes.
- **Expert in Testing and Algorithms:** Skilled in writing comprehensive unit, integration, and automation tests; proficient in algorithms and technical troubleshooting.