Meet Adalaja

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Career Objective

Solution-driven MERN Stack Developer and passionate educator with a proven track record in building scalable applications, mentoring peers, and contributing to collaborative projects. Committed to learning and teaching cutting-edge technologies to enhance user experiences and drive organizational goals.

Education

Master of Computer Science *(Expected: December 2025)*
Algoma University, Sault Ste. Marie, ON, Canada
GPA: 90.33

- **Courses Completed:** Introduction to Cybersecurity, Data Analysis with Python, Advanced Software Engineering
- **Projects:**
  - **Password Manager with Facial Authentication** *(Cybersecurity)***:** Developed a secure desktop application using Electron.js and Node.js with facial recognition login via OpenCV. Stored credentials encrypted with AES-256-CBC locally, ensuring complete offline data privacy.
  - **Canada Crime Data Analysis and Prediction (1998–2023)** *(Data Analysis)***:** Led data preprocessing, visualization in Tableau, and machine learning modelling (Random Forest Regressor) to predict crime trends. Project now extended into a research collaboration with supervising professor for publication.
  - **MailGenieAI – Gmail Add-On** *(Software Engineering)***:** Co-developed a Gmail-integrated AI assistant using Gemini API. It generates context-aware email drafts based on selected tone, style, and scenario. Used Apps Script, modular architecture, and Agile methodology.

Bachelor of Computer Engineering *(2020 – 2024)*
S.P.B. Patel Engineering College, Gujarat, India
CGPA: 9.09/10 | CPI: 9.10/10

HSC – NCERT / GSEB (2020)
Piyuraj High School, Gujarat, India
Percentage: 84% | Percentile: 96.23%

SSC – NCERT / GSEB (2018)
Piyuraj High School, Gujarat, India
Percentage: 83% | Percentile: 96.92%

Experiences

MERN Stack Intern & Team Lead
Purezza Technologies **– June 2024 to Decemer 2024**

- Worked on large-scale web applications, notably the ChunMun Multi-Vendor E-Commerce platform, developing vendor management features (view, edit, delete, filter) and integrating advanced filtering and sorting for products and orders.
- Designed responsive interfaces using Tailwind CSS and Material-UI to improve user experience and ensure cross-platform accessibility.
- Implemented real-time order status update functionality via dynamic API integration.
- Also contributed to other projects including "Amoonic Acrylic Marvels" for user/wallet management and a sports application involving UI responsiveness and invoice/tournament tracking pages.
- Promoted to Team Lead within three months based on performance; mentored junior interns, conducted code reviews, and managed sprint timelines.

MERN Stack Development Intern
TechAnek Technologies **– January 2024 to April 2024**

- Collaborated on the development of an Advanced E-Commerce WebApp using MERN stack.
- Integrated Redux Toolkit and RTK Query for state and API management, and implemented TypeScript to enhance code maintainability and scalability.
- Managed secure payment flows via Stripe and user authentication with Firebase.
- Enhanced admin dashboards with real-time analytics and seamless UX.
- Recognized as Intern of the Month in March 2024 for exceptional contribution and initiative.

React Development Intern
TechAnek Technologies **– August 2023 to September 2023**

- Focused on frontend development for e-commerce platforms, working with functional and class-based React components.
- Integrated RESTful APIs and designed component-based architecture to enhance scalability.
- Used debugging tools and asynchronous programming to improve performance.
- Gained strong hands-on exposure to JSX, Virtual DOM, React Hooks, and dynamic routing.

Fundamentals of JS and React Intern
InfoLabz IT Services Pvt. Ltd. **– July 2023 to August 2023**
- Underwent structured training in JavaScript ES6+ features and React development.
- Developed mini-projects to solidify concepts in props handling, hooks usage, and component-based UI architecture.
- Participated in group coding sessions, simulated client requirements, and presented solutions with code walkthroughs.

Technical Skills
- **Languages:** JavaScript, Python, C, C++, Java
- **Web Development:** React.js, Node.js, Express.js, MongoDB, HTML, CSS
- **Libraries & Frameworks:** Redux Toolkit, Tailwind CSS, Material-UI, Sass, Bootstrap
- **Tools & Platforms:** VS Code, GitHub, TypeScript, Firebase, Stripe, RTK Query, REST APIs, Tableau, Jupyter Notebook, Electron.js, OpenCV, Gemini API, Google Apps Script
- **OS & Environments:** Linux/Ubuntu, Windows
- **Typing Speed:** 55–60 WPM

Soft Skills
Time Management, Research Skills, Problem Solving, Communication, Leadership, Mentorship, Adaptability, Attention to Detail, Teamwork, Dedication

Teaching & Leadership Roles
Executive Member – ALCOMS (Algoma Computer Science Society) (January 2025 – Present)
- Volunteered as an executive member of Algoma University's official Computer Science Student Society. Contributed to planning and execution of both technical (coding competitions, cybersecurity seminars) and non-technical (networking meetups, tech quizzes) events. Fostered student engagement and departmental visibility through collaborative outreach.

Software Development Tutor – OLL & EdGuruIndia (January 2024 – December 2024)
- Mentored students in full-stack development, delivering customized sessions on HTML, CSS, JavaScript, React.js, Node.js, and MongoDB. Guided live project implementations and conducted personalized code reviews to instill coding standards, clean architecture, and practical problem-solving. Designed tailored teaching resources like visual guides, interactive assignments, and mini-projects for learners of various skill levels. Received excellent feedback for enhancing conceptual clarity and practical confidence.

IELTS Tutor – EEC IELTS, Ahmedabad (April 2024 – September 2024)
- Identified learning gaps through diagnostic mock tests and provided personalized lesson plans to improve students' English proficiency. Conducted one-on-one and group classes focused on writing and speaking modules, resulting in consistent band score improvements of 1–1.5 within three months. Built strong rapport with students and provided motivational support throughout the training cycle.

Volunteer Teaching Assistant – S.P.B. Patel Engineering College (January 2023 – May 2023)
- Supported the Data Structures and Algorithms course by preparing practical worksheets, organizing lab sessions, and explaining algorithmic concepts including sorting, recursion, and tree traversals. Led tutorials for 60+ students, resulting in marked improvements in class participation and test performance. Collaborated with faculty on curriculum enhancements and student mentoring.

CTO & Team Leader – Shark Tank Event (YogaFixer Project) (May 2023)
- Led a 10-member team to design and pitch "YogaFixer," an AI-powered posture correction platform. As CTO, oversaw technical development, integrated front-end and AI modules, and coordinated product demos. Presented to industry judges, earning recognition for innovation, leadership, and strategic thinking. Fostered collaboration and innovation across multidisciplinary team members.

Event Manager – Veyg-2k22 Technical Festival (April 2022)
- Directed a 25-member volunteer team to successfully conduct a CPU Assembly demonstration workshop, educating over 100 attendees. Oversaw pre-event training, logistics planning, and live coordination to ensure seamless delivery of a highly rated technical session.

Key Projects

Advanced E-Commerce WebApp *(MERN Stack)*
- Developed a complete e-commerce platform integrating Firebase for user authentication and Stripe for secure payment processing. The platform features user-friendly product browsing with advanced search and filtering options. Admin dashboard enables detailed product, order, and user management along with monthly analytics through charts (bar, pie, line). Implemented real-time coupon-based discounts, revenue tracking, and a responsive design ensuring cross-device usability.

iNotebook *(React/MongoDB)*
- Created a secure note-keeping application using React frontend and MongoDB backend. Enabled user-specific login system with CRUD functionality for personalized notes. Ensured privacy with individual user authentication and data segregation. Features included rich-text editing, update/delete capabilities, and responsive design across devices.

YogaFixer *(AI & Frontend Web Development)*
- Collaborated on an AI-driven yoga pose detection web application aimed at guiding users through corrective feedback. Focused on UI/UX implementation with HTML, CSS, and JavaScript. Project highlighted in a university technical journal and presented in Shark Tank event, receiving strong faculty recognition.

Snake Game *(JavaScript)*
- Built an interactive 2D Snake Game with increasing difficulty levels, real-time collision detection, score tracking, and persistent high-score via localStorage. Added sound effects for movements and an engaging user interface.

CPU Assembly Simulation *(Technical Festival Demonstration)*
- Engineered a visual simulation tool that demonstrates step-by-step CPU assembly and operations for educational purposes. Used in college festival workshops to teach hardware concepts interactively.

TextUtils *(React)*
- Developed a utility web app offering text manipulation features such as case transformation, whitespace cleaning, word/character count, and estimated reading time. Integrated dark mode for improved accessibility.

NewsFromAPI *(React + REST API)*
- Implemented a dynamic news aggregator that fetches top stories using News API. Features include infinite scrolling, categorized news feeds, and modals for detailed article view.

Magic Notes, Calculator, CV Screener, Library App, Blogging Site, Tic Tac Toe, Dragon Jump Game, Travel Request Validator, Analog Clock
- Series of JavaScript projects showcasing a range of capabilities from DOM manipulation, event handling, form validation, gameplay logic, animation, to real-time display and local data storage. These projects serve as strong practical examples of frontend proficiency.

Research & Publications

Ongoing Research on Crime Data Trends in Canada: Collaborating with Dr. Zamilur Rahman to extend the Data Analysis with Python course project into a peer-reviewed academic research paper. Focus areas include crime forecasting using machine learning and socio-economic correlation analyses.

Certifications & Courses
- Fundamentals of JavaScript – Great Learning
- Web Development using PHP – Akash Technolabs
- Professional and Life Skill Development (PLSD) – S.P.B. Patel Engineering College
- Design Engineering & 100 Activity Points – Gujarat Technological University

Workshops & Events
- Delivered 5+ web development workshops under GTU for 100+ high school students
- Participated in Shark Tank & Veyg-2k22 technical events
- Ranked 1st in inter-college ReactJS coding competition (150+ competitors)
- Organized rural education fundraisers during undergrad

Honors & Awards
- Intern of the Month – Purezza Technologies (Sept 2024)
- Intern of the Month – TechAnek Technologies (Mar 2024)
- Multiple Academic Excellence Awards (Undergraduate)