

Proficient in working with the JavaScript ecosystem and a lifelong student who digs into the topic that attracts my interest. Working in the web development field for more than 6 years and passionate about Web 3.0 and Security.

## EDUCATION

<b>MEng - Electrical and Computer Engineering</b> , <i>University of Waterloo, Canada</i>	2023 - Aug, 2024 (Expected)
<b>Bachelor of Computer Engineering</b> , <i>Pandit Deendayal Energy University, India</i>	9.45 CGPA   2019 - 2022
<b>Diploma in Computer Engineering</b> , <i>Gujarat Technological University, India</i>	9.73 CGPA   2016 - 2019

## SKILLS

**Coding Languages:** C, C++, Golang, JavaScript, TypeScript, PHP, Python

**Libraries/Frameworks:** Electron, Express JS, Flask, Gin, jQuery, React JS, Material UI, Next.JS, Tailwind CSS, Jest etc.

**Databases:** MySQL, NoSQL, Postgres, Redis, Firebase Realtime

**Other:** AWS, Burp Suite, ChatGPT - Prompt Engineering, Chrome Extension, CI/CD, Computer Networks, cPanel, Docker, Firebase Auth/Hosting, Git, GitHub Actions, Figma, Node JS, Linux, Photoshop, Postman, SEO, Webflow, Webpack

## EXPERIENCE

**Research Assistant (React JS, TypeScript, Grafana)** **May, 2024 — Present**  
*Wireless Sensors and Devices Lab, University of Waterloo* *Hybrid | Waterloo, Canada*

- Under the guidance of [Professor George Shaker](#), working closely with some of the lab's industry partners including CloudHawk where I am engaged in attempting to solve some state-of-the-art engineering and research problems.

**Frontend Engineer (Next.JS, React JS, TypeScript, Tailwind CSS) | [Link](#)** **Apr — Jun, 2023**  
*Volunteering work | Shiksha Sopan, IIT Kanpur - Prof. H. C. Verma* *Work from home*

- Working in a team consisting of professionals from different companies to redesign their website. Primarily built pages of profile module and integrated API using the react-query library.

**Software Engineer** **Jan, 2022 — Jun, 2023**  
*Praemineo Technologies Pvt. Ltd.* *Remote | Bengaluru, India*

- Sahayak (Chrome Extension API, SCSS, TypeScript, Webpack, API Testing - PyTest)** - Guide tour creation tool
  - Responsible for planning a platform that guides users using text and visual media in their local language. Built SDK for the web, a Chrome Extension using vanilla TS, and wrote testcases using PyTest library of Python.
- Bugclipper (Golang, Gin, Postgres, Redis, Testing)** - Bug tracking tool
  - Handled the backend of a platform that was developed in Golang and implemented message broadcasting using Go channels and Kafka. Wrote testcases for smoothing the deployment process through CI/CD pipeline.
- Glare (Vanilla JavaScript, React, Redux)** - Converts PDF to XML using AI/ML
  - Redesigned UI for better UX and developed a table control (row/column - resize/merge) similar to a spreadsheet using vanilla JavaScript and developed a plugin to add MathJax in the TinyMCE editor with cross-browser support.

**Full-stack Web Developer (Electron, Next.JS, LAMP, MERN stack, AWS)** **Nov, 2021 — Jul, 2022**  
*Freelancing* *Work from home*

- Directed a team of 4 engineers and was responsible for planning, task distribution and timely deliverables.
- Built software for kiosk of two industries and developed a middleware to authenticate machines. For offline payment, used Note Acceptor Machine to accept Indian currency notes and RazorPay for online payment option.

**Full-stack Web Developer - Intern (Next.JS, React JS, Node JS, PHP, MySQL)** **Feb — Dec, 2021**  
*Pandit Deendayal Energy University* *Gandhinagar, Gujarat*

- Worked with a team to build a website with content management system with a two-layer content verification process.
- Responsible for frontend integration with backend, managing routes, SEO, and deployment on CentOS server.

**Web Head (HTML5/CSS3, JavaScript, jQuery, AJAX, PHP, MySQL, Firebase) | [Previews](#)** **Jul, 2020 — May, 2021**  
*Encode club, Science & Technical Committee and Sports Committee of PDEU* *Remote | Gandhinagar, Gujarat*

- Dealt with clubs and committees to carry out the development of their websites while coordinating with web teams.
- Responsible for planning, task allocation, designing database schemas, module integration and deployment. Developed reusable modules like authentication, blogs, users etc. which can be used in multiple websites.

**Backend Developer (JavaScript, jQuery, AJAX, PHP, MySQL, Firebase) | [Preview](#)** **Nov, 2019 — Feb, 2020**  
*Petrocup 2020 - A sports festival of PDEU* *Gandhinagar, Gujarat*

- Engineered an optimal database schema, that was used to show a live scoreboard of matches on the website.
- Built a portal for administrators to manage the registrations and to export various reports in CSV format. Responsible for deployment of the website through cPanel.

## RECENT PROJECTS

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**OpenCMS Database (MySQL, Flask, Python)** **Jan — Apr 2024**  
*System that converts a static website to dynamic*

- Built a system that helps to convert a static website into a dynamic one. Created an MVP with a CLI-based interface to demonstrate the working.
- Considered performance aspects as well while designing the database schema and using MySQL as the database. Used triggers and procedures to enforce the validation of the incoming data and functions to ease the data retrieval queries.

**SyncWell (React JS, Node JS, MySQL, GitHub Actions, Jest, Firebase hosting)** **Jan — Apr 2024**  
*Platform to schedule a meeting hassle-free between two people*

- Outlined the project roadmap and configured the CI/CD pipeline for deployment, ESLint, and Prettier to ensure the coding standards are followed by the team.
- Built the backend in Node JS and used Jest for unit and integration testing. Used Postman to write API test cases for the API endpoints. In addition, integrated Google Meets and Zoom API to generate meeting links dynamically.

**Domain lookup (Chrome Extension API, SCSS, TypeScript, Webpack) | [Link](#)** **Mar, 2023**  
*A chrome extension*

- Built an extension that fetches domain information from the Whois database along with the details of the server.
- Integrated APIs of different services including ip2whois and ipgeolocation. And used Google DNS public API to get an IP address of the domain.

## ACHIEVEMENTS AND CERTIFICATES

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- **Launched 5 websites within 8 months** with the cooperation of team in the tenure of Web Head
- **Finalist in UIDAI hackathon** (2021)
- **Finalist in "Let's hack 2.0" hackathon** (PDEU, 2020)
- **Introduction to Internet of Things** (N.P.T.E.L., 2020)
- **Capsule course - Internet of Things** (PDPU, 2019)
- **Recursion in SQL** (Stanford University, 2019)
- **1st Prize** in Web Designing (2017)
- Developed a **Windows App** and participated in a competition held in Mumbai **at the age of 13** (2014)

## EXTRA-CURRICULAR ACTIVITIES

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- **Technical Blog Writer** on Medium.
- **Advisor** at Encode - The Computer Science club of PDEU for the academic year 2021-22.
- **Web Head** at the **1st International Conference on Artificial Intelligence and Machine Vision 2021** held in PDEU.
- **Core committee member** at Encode club, Science & Technical Committee and Sports Committee of PDEU for 2020-21.
- **Speaker in workshops** like Clean Code, Cryptography, Googling, MySQL database and Web Development.
- **Participated in several hackathons** which were organized by the government, and different universities.