Abhishek Patel

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PROGRAMMING SKILLS

- **Languages**: JavaScript/Typescript, Python, Embedded C, C++, SQL

- **Ecosystem**: Vue, React, MongoDB, PostgreSQL, MySQL, SVN/GIT, Azure, AWS

EXPERIENCE

- **Carleton University** — Ottawa, Canada
  Software Developer — *September 2022 - Present*

  Indigenous Languages Digital Dictionary

  - **Indigenous Languages Dictionary**: Developing a digital version of indigenous languages dictionary which collects data from linguistic editors across Canada. The motive is to develop minimalist and feature rich UI to make it accessible for users across all the ages. Features - word dictation, language fonts and word search across multiple languages. (React-Typescript/React-Bootstrap/Docker/Recoil State Management)
  - **Dictionary Admin Dashboard**: Led design and development of Admin dashboard helping editors document new literature content which includes features like Advanced Data Filtering, Storing User Preferences, Offline usability, Graphical Visualisation. (React-Typescript/React-Bootstrap/Docker)
  - **Dictionary Testing**: End-to-End testing with Cypress/Jest and unit testing in fast-paced Agile development.

  Data Science Web Platform

  - **Client Interface**: Designed and developed web platform that makes the process of procuring data from external sources easy for professors. Underwent UI development based on organization branding guidelines and accomplished testing of user journeys to adhere organization's branding and accessibility goals. (React-Typescript/NextJs/React-Material/Accessible Forms/File Upload)
  - **Admin Dashboard**: Developed and designed Admin dashboard to handle file management, email push notifications, user management and email recipients management. (React-Typescript/NextJs/React-Material/Redux)
  - **Back-end**: Developed REST API's in NodeJs with user management, heavy file upload and email notification services. (NodeJs/SQLite/Azure/Send-Grid)
  - **Testing**: API Testing and component testing

- **Tecksecur LLC (Part-Time)** — Banglore, India
  Software Consultant — *November 2021 - September 2022*

  - **Saas Platform**: Worked on development for cloud based Saas product dealing with Dev-Ops automation with an inspiration to ease the work-flow for non-technical team. (Vue-Typescript/Django/Python)
  - **Workflows**: End-to-end development of all UI work-flows by collaborating with back-end team (includes deliverables, API Interactions, State management - Pinia, UI library - Prime Faces, Utilities - Canvas flow diagram, Kanban board, Custom Code Editor)
  - **User Flows**: Interaction with UX design team to identify and finalize user flows. (Identify user personas, Identify customer journey, usability analysis)
  - **Testing**: Component testing and end-to-end testing

- **IDEX Corporation** — Gujarat, India
  Software Engineer — *July 2020 - August 2022*

  - **IoT Dashboard**: A full stack web platform hosted on hardware which helps engineers configure all the IoT devices installed in plant remotely. (Vue-Typescript/Vue Charts, Backend - C)
  - **Optimization**: Optimized the web app by reducing the bundle size (under 2MB), rendering time by code splitting and res-usable components.
  - **Data Visualization**: Developed Real-Time data visualisation module with Graphs,Charts, Gauges and Bar Meters. (VueJs/Vue Canvas)
  - **Device Configuration**: Automated manual forms with pre-loading frequently used configurations and developed state controlled forms which solved the problem accidentally changing parameter values. (Vuelidate)

- **IDEX Corporation** Gujarat, India
  Software Intern *July 2019 - March 2020*
  - **Dashboard**: Developed proof of concept for IoT device management dashboard which can visualize data from sensors installed in factory and change sensor parameters. (Vue-Js/Real-Time Data Visualization)

- **Kickstart Solutions LLP** Gujarat, India
  Web Development Intern *August 2017 - August 2018*
  - **Front-End**: Developed UI workflows and web modules to cater to client requirements. Worked on E-Commerce platforms, WordPress, VueJS and web-technologies (HTML/CSS/JQuery)
  - **Back-End**: Got hands on with Laravel/ PHP and Vue.js while developing an eCommerce Website from scratch.
  - **Leadership**: Managed a technical festival named Encrypza with multiple events with 1000+ participants.

Freelance Projects

- **ISHRO - https://www.ishro.com/**:
  Lottery Ticket Vending platform for Dubai based client in ReactJs, NodeJs, MySQL.

- **Business ID - http://businessid.net/**: Developed an e-commerce marketplace with social platform integration in VueJs.

- **The Baby Bo - https://www.thebabybo.com/**: Developed an e-commerce website in wordpress.

- **Finance Application**: Finance Management App with PDF generation in Python. Tech Stack - VueJs, Azure SQL, NodeJs, MSSQL, PWA

- **AMANI - https://discoveramani.github.io/**: Web Portfolio for UK based Clothing Brand serving images from CDN.

Education

- **Carleton University** Ottawa, Canada
  Master of Eng. in Electrical and Computer Eng.; GPA: 4.00 *Sept. 2022 – Present (Dec. 2023)*

- **Sardar Vallabhbhai Patel Institute of Technology** Gujarat, India
  Bachelor of Engineering in Electrical and Electronics; GPA: 3.66 (8.96/10.0) *Aug. 2016 – July. 2020*