

# Selvaganapathy K

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## CORE SKILLS

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**Programming Language:** Python

**Frontend skills:** HTML5, CSS3, JavaScript, Embedded.js

**Frameworks:** React.js, Bootstrap5

**Backend skills:** Node.js, Express.js, RESTful APIs, MongoDB, PostgreSQL

**Others :** Postman, VScode, GitHub

**Soft Skills:** Self Motivator and team collaboration.

## PROJECTS

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### E-commerce Web Application

Oct 2024 – Nov 2024

*Personal Project*

**ReactJS, RESTful API, ExpressJS, MongoDB**

- Developed a full-stack e-commerce web application using the **MERN** stack (**MongoDB, Express.js, React.js, Node.js**) to create a dynamic and scalable online store.
- Designed and implemented a **user-friendly frontend** with **React.js**, utilizing state management through the **Context API** and responsive design techniques to enhance the user experience across various devices.
- Integrated secure user authentication and authorization using **JWT** and **bcrypt** to protect customer data. This also facilitated the management of product listings, user accounts, shopping carts, and order processing.
- Incorporated **payment gateways** like **PayPal** to enable seamless transactions and efficient order management.
- Built a comprehensive admin panel for product management and order tracking. It improved application performance by reducing load times by **90%**, ensuring scalability to support **90%** of concurrent users.
- Deployed the application on Render and managed version control using Git and GitHub for collaborative development.
- **LIVE - E-Shopper.com**

### Weather Web Application

Sep 2024 – Oct 2024

*Personal Project*

**ReactJS, AXIOS, Free Weather API**

- Developed a weather web application using **React.js** for the front end and **Axios** to interact with the **FreeWeatherAPI** for real-time weather data.
- Built a dynamic and responsive user interface to display weather information, including temperature, humidity, wind speed, and forecasts based on user-entered locations.
- Integrated **Axios** to handle API requests and fetch data asynchronously, ensuring efficient and responsive performance.
- Implemented a search function that allows users to enter a city name and retrieve current and forecasted weather data.
- Utilized **React hooks** (**useState, useEffect**) to manage state and optimize component rendering.
- Deployed the application on **Netlify** for seamless hosting, and used **Git and GitHub** for version control and collaborative development.
- **LIVE - Forecast.com**

## CERTIFICATIONS

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- Completed the **Full Stack Web Development Bootcamp** on Udemy, gaining expertise in **frontend (ReactJS, EmbeddedJS, JavaScript, HTML, CSS)** and **backend (Node.js, Express, PostgreSQL)**, and building full-stack applications with responsive design and RESTful APIs.
- Earned a certificate in **MERN Stack Development** from Simplar Academy, specializing in **MongoDB, Express.js, React, Node.js, and RESTful APIs** to develop dynamic full-stack applications.

## EDUCATION

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**NGM College**

*M.Sc. Computer Science*

*Oct 2020 – May 2022*

**NGM College**

*Bachelor of Computer Applications*

*Jun 2017 – May 2020*