SELVAPRASANTH S

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CAREER OBJECTIVE

Passionate software developer with hands on experience in building web applications through personal initiatives. Excited to apply my skills in a fast-paced software engineering role.

EDUCATION

B.E in Mechanical Engineering, Kongu Engineering College, Perundurai, Erode.   2020 - 2024
CGPA - 8.18

HSC, Sri Renugadevi higher secondary school, Neikarapatti, Palani, Dindigul.   2019 - 2020
74.17%

SSLC, Sri Renugadevi higher secondary school, Neikarapatti, Palani, Dindigul.   2017 - 2018
82.4%

SKILLS

Programming Languages: C++, Java

Web Technologies: ReactJs, HTML, CSS, JavaScript, MongoDB

Tools: Visual studio code, Git & GitHub

EXPERIENCE

Software Engineer Intern, Applied Materials India Private ltd, Chennai, Tamil Nadu.
Mar 2024 - May 2024

CERTIFICATIONS

- JavaScript (Intermediate) - **HackerRank**
- Java (Basics) - **HackerRank**
- SQL (Basics) – **HackerRank**

PROJECTS

User management and Profile System

• This is a responsive website with role-based authentication, user registration, and profile management features, including admin approval, profile updates, and secure session handling. Implemented password management, account deletion, and dynamic data collection based on admin approval.
Tech stacks used: HTML, CSS, JavaScript, PHP, MySQL and jQuery Ajax

Personal Portfolio

• Built a personal portfolio website featuring interactive elements such as CSS animations, typewriting effects, and social profile links, with a downloadable CV and contact form powered by NodeMailer. Utilized advanced web techniques like routing, lazy image loading, custom hooks, SwiperJS, and Intersection Observer for optimized performance and smooth user experience.
Tech stacks used: ReactJs, CSS and NodeJs

Coffee Shop UI design

• Designed a visually appealing website for a coffee shop with a dynamic user interface, leveraging React hooks like useState, useEffect, useRef, and useMemo for efficient state management. Integrated SwiperJS for interactive elements, conditional styling, props drilling, and CSS modules for modular and maintainable design.

Tech stacks used: ReactJs and CSS

Fluid UI with Infinite Scroll and Carousel

• Developed a responsive website using semantic HTML, CSS, and JavaScript, ensuring an optimized user experience across devices. Implemented infinite scrolling with CSS and an infinite carousel using the SwiperJS library for smooth content navigation.

Tech stacks used: HTML, CSS and JavaScript

Design and Fabrication of Tractoshred plougher

• Designed and fabricated a tracto-shred plower for efficient agricultural waste management, capable of shredding waste into smaller pieces while ploughing. This innovative device allows for simultaneous clipping and spreading of organic fertilizer, reducing manual labour and enhancing soil health.

Multicriteria decision making through TOPSIS on the drilling parameters of Aluminium composites reinforced with ZrO_2 and SiC

• Conducted a multicriteria decision-making analysis using TOPSIS to evaluate drilling parameters for aluminium composites reinforced with ZrO2 and SiC, focusing on two specimens (Al6061 and Al6063). Optimized spindle speed and feed rate combinations through Taguchi design, identifying key parameters that minimize drilling waste while ensuring quality through metrics like burr height and surface roughness.

ACHIEVEMENTS

• Won 2nd prize in the IMPERIUM 2K22 Paper Presentation for the "SIX STROKE ENGINE" at Kongu Engineering College, Perundurai, Erode.
• Won 3rd prize in a coding contest organized by the College CSE Coding Forum.

MEMBERSHIPS

- Active member of the NSS (National Service Scheme)
- Student member of the ISTE (Indian Society for Technical Education)
- Student member of the IEI (Institute of Engineers India).

LANGUAGES

- Tamil
- English