

Krishna Patel

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OBJECTIVE

Detail-oriented and analytical software engineer with a unique background as a surgical neurophysiologist. I am equipped with transferable skills in effective communication, data analysis, and problem-solving. I possess a Certificate in Software Engineering as well as in Python, SQL, HTML/CSS, Javascript, React, Flask, and Node. Along with a strong track record of developing innovative full-stack web applications, my technical acumen and ability to thrive in high-pressure environments make me a great addition to any team. Having a growth-mindset, I am continuously advancing my expertise as a software engineer. I aim to leverage my diverse skill set to design and develop cutting-edge software solutions that optimize efficiency, improve user experiences, and drive impactful outcomes.

Languages: Python, JavaScript, TypeScript, HTML, CSS, SQL

Frameworks & Libraries: React, Redux, Flask, Node, Express, Bootstrap, Styled Components, Stripe.js MUI, JWT

Certifications: [Software Engineering – Coding Temple](#)

Other: Git, MongoDB, ElephantSQL, Visual Studio, Netlify, Render, Tailwind CSS, Insomnia, Google Firebase

APPLICATIONS/PROJECT WORK

KrisP Corner eCommerce - Software Engineer [\[Github\]](#) [\[Site\]](#)

Technologies: HTML/CSS, JavaScript, React, Redux, Express, MongoDB, Node, JSON, Stripe, JWT, Styled Components

- Engineered a full-stack multi-page eCommerce web application with a React frontend and Node backend that provides users with an appealing user interface and an easy-to-use shopping platform.
- Wrote JavaScript to create a RESTful API to store, create, delete, and update a consumer's data into a database by using Node and MongoDB; Tested CRUD operations via Insomnia with mock user JSON input to test endpoints.
- Utilized Redux for state management, allowing for efficient and centralized data handling throughout the application, resulting in improved performance and scalability.
- Implemented a cart system with features like adding/removing items, quantity adjustment, and checkout functionality, providing a seamless shopping experience for customers.
- Programmed CSS, HTML and JavaScript to design layout for homepage, category section, individual product pages, shopping cart and sign-in/sign-up.
- Integrated a secure payment gateway such as Stripe, enabling secure online transactions for customers.
- Leveraged responsive design techniques and media queries to create a seamless and visually appealing user interface on smartphones and desktop computers.

EXPERIENCE

Software Engineer Trainee - Coding Temple

01/2023 – 06/2023

Technologies: Flask, React, Python, JavaScript, TypeScript, Node, Express, PostgreSQL, Tailwind CSS, Google Firebase

- Completed an intensive software engineering bootcamp, gaining hands-on experience in full-stack web development, agile methodologies, and modern software engineering practices.
- Built back-end applications and RESTful APIs, utilizing frameworks like Express.js or Flask, to handle data requests, implement authentication and authorization mechanisms, and ensure secure data transmission.
- Implemented database models and utilized relational databases such as MySQL or PostgreSQL, as well as NoSQL databases like MongoDB, to efficiently store and retrieve application data.
- Applied front-end frameworks such as React and libraries like Bootstrap, Tailwind CSS, or MUI to create visually appealing and responsive user interfaces while maintaining consistency in design and expediting development

Senior Surgical Neurophysiologist – Precise Medical Solutions LLC

08/2022 – Present

- Aseptic technique to place 40+ needles into each patient and deliver electrical impulses for data collection.
- Analyzed quantitative data in real-time and advised the team during critical moments to improve surgical outcomes using 50+ data points.
- Programmed 6 IONM templates for Cadwell Surgical Studio for employees' use during surgical procedures.
- Collaborated closely with surgical teams, including neurosurgeons, anesthesiologists, and other healthcare professionals, to provide real-time neurophysiological feedback and guidance to ensure patient safety during high-risk surgeries.

Senior Surgical Neurophysiologist – United Medical Monitoring PC

06/2019 - 09/2022

- Mentored and trained 12+ neurophysiologists, providing guidance and support in adopting best practices, improving their technical skills, and increasing coverage of spine, ENT, vascular, and brain surgeries.
- Fostered a collaborative and client-centric culture within the organization, promoting a positive and proactive approach to client management and ensuring a team effort in delivering exceptional client experiences.
- 750+ cases proving competency in multimodality monitoring (SSEP, TcMEP, sEMG, tEMG, EEG, BAERs, Phase Reversal, Motor Mapping, and TOF)

EDUCATION

Rutgers University, B.A. Cell Biology & Neuroscience

Coding Temple, Software Engineering: Certificate of Completion