



ARUN CHERIAKARA

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Technical Skills

Languages: Python, JavaScript, TypeScript, C/C++, HTML, CSS

Frameworks: React.js, Node.js, GraphQL, TailwindCSS, Firebase, Stripe

Technologies: MongoDB, AWS, Postman, Figma, Git, Flask, Jupyter Notebooks

Experience

Litespace

Feb 2023 – Present

Front End Developer

Remote

- Developed and deployed the entire front-end of the platform's payment dashboard, office settings, team, and event pages using React, Typescript, and GraphQL, resulting in an increase in user engagement and improved user experience.
- Reduced development time by 30% and enhanced code maintainability by organizing front-end React.js functional components across multiple pages of the platform.
- Improved usability across various devices by analyzing UI/UX design for responsive layout through Figma.
- Successfully integrated Stripe payment processing, allowing for flexible payment plans for subscriptions that range from monthly to yearly, leading to an enhanced user experience based on the chosen subscription plan.
- Developed multiple GraphQL APIs to query and mutate data stored in a MongoDB database, resulting in an increase in platform functionality and improved data security.

Innovation Development Canada (ISED)

May 2022 – August 2022

Telecommunication Software Engineer

Ottawa, CA

- Developed a data prediction tool for telecom software using Python and MATLAB through data collection and analysis, resulting in a significant enhancement to the overall software performance.
- Determined antenna gains and losses for multiple satellites and verified them using Python, leading to effective antenna matching and tuning operations.
- Proficient in data analysis, modeling, and simulation for telecom systems, resulting in accurate analysis and improved system performance.

Arkalumen

Jan 2021 – May 2021

Hardware Programmer

Ottawa, CA

- Translated Assembly code to C programming for multiple hardware designs, ensuring successful validation by uploading to hardware.
- Programmed and validated functionality for multiple hardware designs, demonstrating proficiency in embedded application development.
- Independently designed over 10 PCBs, resulting in a 90% success rate in meeting project requirements and specifications, and reducing design errors.

Projects

Noble Apparel Co | Link

Tools used: *React.js, TypeScript, Redux, HTML, CSS, Firebase*

- Designed and developed an e-commerce website featuring user-friendly navigation for browsing various item categories and shopping.
- Implemented user-friendly features, such as the ability to add or remove items from the cart, update the cart, and proceed to checkout, resulting in a streamlined shopping experience for customers.
- Integrated the Stripe API to ensure secure payment handling during checkout.
- Incorporated Firebase authentication to enable users to sign up using their email or sign in with Google, which improved website security and user experience.

Sorting Visualizer | Link

Tools used: *React.js, JavaScript, Redux, Tailwind CSS*

- Developed a sorting visualizer web application using React and Tailwind CSS that helps users visualize and understand popular sorting algorithms, such as bubble sort, quicksort, and merge sort.
- Utilized Redux for centralized state management and separation of concerns.

RemoteMate | Link

Tools used: *C++, Python, React.js, Node.js, HTML, CSS*

- Built a robotic arm that is remotely controlled through a glove through C++.
- Utilized web sockets and Node.js to establish a client/server connection for robotic arm control.
- Developed automation scripts using Python programming language.

Education

University of Ottawa

Sep. 2018 – Apr 2023

Bachelor of Applied Science in Electrical Engineering (Co-op), 3.7/4.0 GPA

Ottawa, CA