

Arun Cheriakara

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[🌐 Portfolio](#)

Skills

Programming & Frameworks: Python, Javascript, Typescript, React.js, Node.js, C/C++ GraphQL, HTML5

Tools: MongoDB, Tailwind CSS, Stripe, Firebase, AWS, Git, Jira, Confluence, Postman, Jupyter Notebooks

Experience

Front End Developer, Litespace

Jan 2023 - Present

- Developed and deployed the entire front-end of the platform's team, office, event page and payment dashboard using Typescript 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.

Telecommunication Software Engineer, ISED

May 2022 - Aug 2022

- 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 using Python, leading to effective antenna matching and tuning operations
- Proficient in data analysis, modelling, and simulation for telecom systems, resulting in accurate analysis and improved system performance.

Hardware Programmer, Arkalumen

Jan 2021 - May 2021

- 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 allowing users to easily add or remove items from their cart and proceed to checkout
- 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, quick sort, 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

B.A.Sc, Electrical Engineering (Co-op): University of Ottawa

Sep 2018 - Apr 2023

- Dean's honors list with a GPA of **3.7/4.0**
- Courses: Introduction to Data Communications, Wireless Communication, Data Structures & Algorithms