



# ARUN CHERIAKARA

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## Technical Skills

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**Languages:** Python, JavaScript, TypeScript, C/C++, Java, HTML5, CSS3

**Frameworks:** React.js, Node.js, Next.js, Flask, TailwindCSS

**Technologies:** MongoDB, AWS, GraphQL, Firebase, Stripe, Postman, Figma, Git, Flask

## Experience


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### Litespace

Feb 2023 – Present

*Full Stack Developer*

*Remote*

- Developed and deployed the entire front-end of the platform using **React**, **Typescript**, **MongoDB**, and **GraphQL**.
- Boosted development efficiency by organizing front-end React components across multiple platform pages, reducing the time by 30% and improving code maintainability.
- Developed multiple **GraphQL APIs** to query and mutate data stored in a **MongoDB database**.
- Developed responsive and theme-based websites utilizing front-end development frameworks like **TailwindCSS**.
- Integrated micro-services using **NestJs** making the platform deploy independent applications.
- Lead a team to build over 25 reusable components using Typescript and showcased them using **Storybook**. |  [Link](#)

### 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.

### Curtiss-Wright

Sep 2021 – Dec 2021

*Hardware Designer*

*Ottawa, CA*

- Utilized high-speed logic analyzers and digital oscilloscopes in a laboratory setting to test and verify hardware, leading to improved product quality and lower failure rates.
- Conducted signal debugging during the initial bring-up phase and performed testing, leading to faster time-to-market and increased customer satisfaction.
- Improved testing efficiency and accuracy by creating scripts in **TeraTerm**, and **Python** to verify hardware functionality.
- Proficiently utilized **Git**, **JIRA**, and **Confluence**, enhancing collaboration and communication within the team.

### 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.

### University of Ottawa

May 2020 – Sep 2020

*C++ Developer*

*Ottawa, CA*

- Created a functional hardware/software system that measures the distance between devices for social distancing, contributing to efforts to combat Covid-19.
- Utilized **embedded C programming** to implement commands for the Bluetooth chip, enabling seamless communication between devices.

## Projects

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**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.

**Omega Dashboard** |  [Link](#)

**Tools used:** *React, JavaScript, Material UI, Formik*

- Developed a comprehensive dashboard to display data from multiple sources and provide actionable insights.

## Education

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**University of Ottawa**

Sep 2018 – Apr 2023

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

*Ottawa, CA*