

ARUN CHERIAKARA

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Technical Skills

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

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

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

Experience

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 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 **Nest.js** backend APIs into React front-end applications, leveraging GraphQL for efficient data retrieval and manipulation.
- 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

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

University of Ottawa

Sep 2018 – Apr 2023

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

Ottawa, CA