

# Arun Cheriakara

SEEKING FRESH GRADUATE POSITIONS IN SOFTWARE ENGINEERING

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## Skills

**Programming** Python, C/C++, HTML5, CSS3, JavaScript, Typescript, GraphQL, Assembly, SQL  
**Technologies** React.js, Node.js, AWS, Firebase, Flask, Postman, Git, JIRA, Confluence, Jupyter Notebooks, TailwindCSS

## Experience

### Innovation, Science and Economic Development Canada

Ottawa, Ontario

TELECOMMUNICATION SOFTWARE ENGINEER

May. 2022 - Aug. 2022

- Leveraged Python and MATLAB for data collection and scripting of solutions
- Determined Antenna gains and losses for multiple satellites and performed verifications using Python
- Conducted antenna matching, tuning, and measurements, as well as spectrum analysis
- Developed a comprehensive understanding of radio communication protocols and the operation of frequency bands in Canada.

### Curtiss-Wright

Ottawa, Ontario

HARDWARE DESIGNER

Sep. 2021 - Dec. 2021

- Utilized high-speed logic analyzers and digital oscilloscopes for testing and verification in a laboratory setting
- Debugged high-speed signals during the initial bring-up phase and conducted testing
- Wrote scripts in TeraTerm, Python, and C/C++ to verify hardware functionality
- Acquired knowledge in TPM, I2C, and SPI bus cycle implementation for software solutions
- Proficient in using Git, JIRA, and Confluence
- Demonstrated expertise in microprocessor and RTOS kernel programming, as well as experience with Linux

### Arkalumen

Ottawa, Ontario

HARDWARE PROGRAMMER

Jan. 2021 - May. 2021

- Possessed the ability to translate Assembly code to C programming and validate by uploading to hardware
- Acquired a strong foundation in embedded application development through Assembly language proficiency
- Assisted senior electrical engineers in PCB design and independently designed multiple PCBs

## Projects

### RemoteMate | [🔗 Link](#)

C++ · PYTHON · REACT.JS · NODE.JS · CSS · HTML

- 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

### Social Distance Guardian | [🔗 Link](#)

C++ · EMBEDDED C

- Created a hardware/software solution to measure the distance between two devices for social distancing using C++
- Executed commands using Embedded C programming for Bluetooth chip integration
- Developed and performed various automation tests, including smoke and robustness tests, to verify hardware compatibility

### FriendFiesta | [🔗 Link](#)

PYTHON · HTML · FLASK · JAVASCRIPT

- Developed a real-time chat messenger application using Python and various frameworks, including socket.io, Flask, SQL, and flask-socketio
- Designed the app to allow users to join chat rooms with unique names and engage in immediate conversations with other users
- Implemented a feature that allows users to access the history of previous conversations and review past messages

## Education

### University of Ottawa

Ottawa, Ontario

BASc IN ELECTRICAL ENGINEERING(CO-OP)

Sept. 2018 - April. 2023

- Dean's honor list with a GPA of **3.7/4.0**
- Undergraduate courses: Introduction to Data Communications and Networking, Wireless Communication, Data Structures & Algorithms