Arun **Cheriakara**

SEEKING FRESH GRADUATE POSITIONS IN SOFTWARE ENGINEERING

(+1) 647-632-0803 | aruncheriakara@gmail.com | aruncheriakara

Skills

Programming	Python, C/C++, Embedded C, HTML5, CSS3, JavaScript, React.js, Typescript, GraphQl, TailwindCSS, Assembly, SQL
Technologies	Git, JIRA, Confluence, Firebase, Flask, Postman, Jupyter Notebooks, Node.js, Pandas, Tensorflow

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