

# Athul V

I'm a software engineer with expertise in developing and testing software systems on various platforms such as embedded and full-stack systems. Currently looking for opportunities in areas related to software development and testing and frontend

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## WORK EXPERIENCE

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**Samsung Semiconductor India Research,** **Jul 2022 – May 2023**  
**Software Developer - Unit Testing in C++Module**  
*Bengaluru, India*

- Memory Solutions Team - Embedded Firmware PE III
- Work: Test Cases for Host Performance Booster Extension for Universal Flash Storage
- UFS Host Performance Booster mode seeks to enhance the random read performance for Universal Flash Storage by using the system RAM as a cache for the Flash Translation Layer (FTL) mapping table.

**Yashoda Hospitals,** **May 2020 – Jul 2020**  
**Front-end Developer - ReactJS,Express,MongoDB,Node**  
*Hyderabad, India*

- Worked on developing a prototype and automating their supply management system from their existing management using Express, NodeJS and React

## Skills and Technical Proficiency

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- Programming Languages:: C,Java,Javascript,Node,React,Express
- Scripting Languages - Python
- Library - Spring - Java, Django - Python, POSIX - C
- Web Development - Javascript, HTML, CSS,NodeJS,Express,React
- Understands React Routing

## EDUCATION

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**Birla Institute of Technology and Science, Pilani**  
*B.E. (Hons.), Electrical & Electronics and M.Sc. (Hons.), Biological Science (Dual)*  
*Hyderabad, India* *Aug 2018- Aug 2023*  
Final GPA of 7.52

## Projects

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**DHIS2 Integration with RightBiotic App with HISP India - Postgresql, NodeJS, API Integration**

- Integrated the web application RightBiotic using a WebAPI. The posts and receives data from a WEB API endpoint in the DHIS2 HISP India Server.

**Oral cancer cell diagnostics using OpenCV on fluorescence Microscopy - Python, Pytorch, OpenCV**

- Novel methods for detecting Oral Cancer Cells and Diagnostics using OpenCV module Python and Pytorch for making segmentation filters, on fluorescence microscopic images. Fork of ICSS.

**Operating Systems - Multi-threaded Scheduler - C, POSIX, Process Schedulers in OS**

- A scheduler designed for calling child processes for multiple functions. Along with a multi-threaded C program that reads a file containing space-separated positive integers in ASCII format. And performs certain tasks on the integer. The efficiency vs. no of threads used in compared and displayed using gnu-plot.

**Book Exchange Website Using Spring - Java, Spring Framework, h2 database**

- Making A Crud App using Java - Spring framework, for the exchange of books. It uses various concepts of Object Oriented Programming learned in the course. Proficiency in Spring Boot Framework along with Java, and setting up an Apache server in Linux.