

# SHANMUGARAJA PRAVEEN KUMAR

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## IT Undergraduate

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A Passionate IT student with a strong programming background, eager to join the software industry. Enthusiastic about contributing technical skills and academic expertise to develop effective software solutions that enhance business outcomes.

## Education

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**University of Sri Jayewardenepura**

**June 2021 – Present**

*BS in Information and Communication Technology*

- GPA: **3.63/4.0**
- **Coursework:** Software Quality Assurance, Mobile Application, Web Application, Machine Learning, Data Structures and Algorithms, Advanced Databases

## Experience

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**Quality Assurance Engineer - Intern**

**Colombo, Sri Lanka**

4AXIS Solutions

October 2024 – Present

- Designed a UI for the VS open file switcher (Ctrl-Tab) and extended it to tool windows
- Created a service to provide gradient across VS and VS add-ins, optimizing its performance via caching
- Built an app to compute the similarity of all methods in a codebase, reducing the time from  $\mathcal{O}(n^2)$  to  $\mathcal{O}(n \log n)$
- Created a test case generation tool that creates random XML docs from XML Schema
- Automated the extraction and processing of large datasets from legacy systems using SQL and Perl scripts

## Projects

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**Multi-User Drawing Tool**

[github.com/name/repo](#) 

- Developed an electronic classroom where multiple users can simultaneously view and draw on a "chalkboard" with each person's edits synchronized
- Tools Used: C++, MFC

**Synchronized Desktop Calendar**

[github.com/name/repo](#) 

- Developed a desktop calendar with globally shared and synchronized calendars, allowing users to schedule meetings with other users
- Tools Used: C#, .NET, SQL, XML

**Custom Operating System**

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- Built a UNIX-style OS with a scheduler, file system, text editor, and calculator
- Tools Used: C

## Technologies

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**Languages:** Java, JavaScript, Python, C, SQL, HTML, CSS

**Technologies:** Playwright, Selenium, Jira, Bitbucket, Sourcetree, Firebase

## References

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- Each section title is arbitrary and each section contains a list of entries.

## Publications

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**3D Finite Element Analysis of No-Insulation Coils**

Jan 2004

Frodo Baggins, ***John Doe***, Samwise Gamgee

[10.1109/TASC.2023.3340648](#) 