

# VIRAJ WICKRAMASINGHE

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## TECHNICAL SKILLS

- **Programming Languages and Libraries** - Java, Spring Boot, Python, Groovy, Bash, NodeJS
- **Database Systems** - Oracle, PL/SQL, MySQL, Mongo DB
- **Tools and Technologies** - Git, Bitbucket, JIRA, Gitlab, Postman, Selenium, JMeter
- **Operating Systems** - Windows, Linux, Unix
- **IDE** - IntelliJ IDEA, NetBeans, Eclipse, Visual Studio
- **Methodologies and Concepts** - OOP, Microservices, JUnit, UML, Data Structures, Agile, Scrum, Rest APIs, CI/CD, Machine Learning
- **DevOps Automation Tools** - Jenkins, Docker
- **Cloud Platforms and Services** - AWS, GCP

## EDUCATION

### Master of Applied Computing

May 2022 - Dec 2023

University of Windsor, Canada(Grade - 88/100)

### Bachelor of Software Engineering

Nov 2015 - Dec 2019

Sri Lanka Institute of Information Technology, Sri Lanka(Grade - 3.88/4)

## WORK EXPERIENCE

### Senior Software Engineer

Jan 2024 - Present

Synopsys, Ottawa

- Leads MDRF format support for PostgreSQL, transitioning from 4+ legacy formats.
- Leads the release of the tiler project using Java and Gradle, enhancing project delivery speed by 25%.
- Collaborates with TVE team on data import, generating 10+ reports for data-driven decisions.
- Implements Jenkins pipeline, reducing build times by 30% and enhancing overall project efficiency.
- Streamlines troubleshooting in shelfQA, reducing resolution time by 20% through root cause analysis.

### Intern(Technical Engineering) – Software Automation

May 2023 - Dec 2023

Synopsys, Ottawa

- Utilized Java, Bash, and Groovy to develop internal software tools and maintain 6+ IP design stages.
- Collaborated with Test and Layout teams to design and generate 5+ reports.
- Employed automated testing to enhance QA practices, conducting over 100 automated test cases.
- Applies OOP concepts to design and develop 3+ new tools and methodologies.

### Technical Analyst

Jun 2022 - Apr 2023

Hoist Global Services, Canada(Remote)

- Enhanced system performance by 5% through software support for 7+ Hoist customers, including IPL, DHC, DSL, and Seaspan.
- Reduced manual work by developing 2+ Java components within the IFS ERP using IFS framework.
- Collaborated with North American development team, successfully resolving 20+ escalated issues.

- Contributed to code reviews, data migrations, SQL queries, and optimizing production environment performance by 10%.

### Senior Software Engineer

Nov 2021 - Apr 2022

IFS, Sri Lanka

- Led 10+ face-to-face software support and consultation sessions with customers.
- Developed Payroll components using Java, C#, and IFS frameworks, ensuring regular software updates, and maintaining a 99.9% uptime over 2 years.
- Managed a 20-member R&D team, serving as Scrum Master, guiding Java development process.
- Trained 10+ software developers in IFS technologies and products.
- Represented product to Human Capital Management Payroll for Poland customers.

### Software Engineer

Oct 2019 - Nov 2021

IFS, Sri Lanka

- Headed 30+ customer meetings and presentations, providing expert guidance on HCM and Payroll.
- Delivered 5+ presentations and KT sessions for new team members as the product owner.
- Engineered 3+ components for IFS Aurena and IFS IEE utilizing Java, C#, and IFS frameworks.
- Served as Scrum Master for HCM Support and HCM Payroll, achieving a 50% backlog reduction through Agile methodology.

## PROJECTS

### e-Bay Web Search Engine using Data Structures

- Developed a web search engine to crawl and retrieve HTML pages, parse content, and convert them into text files.
- Implemented efficient data structures for optimized content storage and retrieval and employed the Jsoup library for HTML parsing and extraction of web page content.
- Used HashMap for efficient keyword storage and retrieval operations and implemented Trie data structure for optimized keyword searching.
- Applied the Edit Distance algorithm to suggest similar words when an exact match is not found.

GitHub Link: <https://github.com/vjanu/Web-Search-Engine>

### Heart Health Prediction System

- Developed a predictive model for heart disease diagnosis using datasets from Statistics Canada.
- Applied machine learning techniques to analyze clinical and pathological data for accurate predictions.
- Utilized Python for data analysis and model training, and MongoDB for data storage.
- Leveraged Apache Spark and the Hadoop ecosystem for large-scale data processing and management.
- Designed a web interface in HTML for user-friendly interaction with the model.

GitHub Link: [https://github.com/vjanu/heart\\_health\\_prediction](https://github.com/vjanu/heart_health_prediction)

## EXTRA-CURRICULAR ACTIVITIES

- Student Volunteer - University Community Church June 2022 - Dec 2022
- Student Volunteer - UWindsor Campus Community Garden May 2022 - Jan 2023

## PUBLICATIONS, COMPETITIONS AND AWARDS

- Dialog Axiata Best Software Engineering Student Award Feb 2020