

Sajeevan Vinayakavaseekaran

BSc Eng Hons. Computer Science and Engineering



Strong team-player who is willing to pursue a career in challenging software system's architecture design and implementation processes by perfecting theoretical knowledge and incorporating industry experience & guidance. Adapt to agile infrastructures and technologies quickly and I believe that through team-work and ceaseless diligence, the improbable can be achieved. I always focus on enhancing the magnitude of my contribution and aim to expand my capabilities along the way. Also, love dealing with Artificial Intelligence.

EDUCATION

2016 - 2020
4 Year

UNIVERSITY OF MORATUWA
Computer Science and Engineering
Undergraduate BSc Engineering Honours
SGPA 3.316

2006 - 2015
9 Year

JAFFNA HINDU COLLEGE
Secondary Education
G.C.E Advanced Level 2015
-All 'A' Passes for Mathematics, Physics, and Chemistry
-Island rank 133, District rank 12, Z-Score 2.4691
G.C.E Ordinary Level 2011
-4 A's Includes Mathematics, Science, ICT and 2 B's and 3 C's

2000 - 2005
5 Year

ST. JOHN BOSCO'S VIDYALAYAM
Primary Education
Grade 5 Scholarship Examination 2005
-Passed by obtaining 156 Marks

WORK EXPERIENCE

Software Engineering Intern
ShipXpress Technologies (Pvt) Ltd, A Wabtec Company
2019 Jun - 2019 Dec | 6 Months

- ⦿ Requirements analysis and user story creation of TY Mobile Application.
- ⦿ Full stack Development and Maintenance of TY Mobile Application. (Android, IOS)
- ⦿ Frontend development of MCrew Mobile Application.
- ⦿ Zerodays Hackathon - Intelligent suggestion service: Based on the user's behaviour

VOLUNTEER EXPERIENCE

Database Administrator & Developer - A/L Pilot examination committee
Developed a complete web page management system for the communication purpose of an island-wide A/L pilot examination. Maintained a database of 5500+ students. Results were released via Website and SMS-Mobile.

Sotkanai Competition Scoreboard - TLA
Interior design and development of Sotkanai competition Scoreboard Application. During COVID-19 pandemic Coordinators were made able to conduct the competitions remotely and Judges were made able to submit their scores remotely.

Annotation - NLP Center - University of Moratuwa
Assisted an FYP regarding Designing and developing a tag set and maintaining annotated data from government documents. Supported in investing and analyzing the usage of deep learning and distributed semantics for "recognizer for the Tamil language."

PERSONAL DEVELOPMENTS

Deep Learning Specialization - deeplearning.ai, Coursera (2019-2020)
Five course specialization covering Neural Networks and Deep Learning, Convolutional Neural Networks, hyperparameter tuning, etc.

Machine Learning with Python - IBM, Coursera (2019)
This course dives into the basics of machine learning using an approachable, and well-known programming language, Python.

Freelance Interior Designer & Developer 3-Nought-4 Multiplayer Game
Self-interested, Unity based realtime multiplayer game development.

CONTACT DETAILS

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- 🌐 Linked in: www.linkedin.com/in/sajeevan-vinayakavaseekaran
- 🐙 GitHub: github.com/sajeevan16

INTERESTS

- ⦿ Algorithms
- ⦿ Software Architecture
- ⦿ Web Security
- ⦿ Data Science
- ⦿ Game Development

PROJECTS

PacGuard - API-based attack simulation & detection using RL (2020)

Python | Keras | GNS3 | Flask | Docker | Reinforcement Learning

PacGuard is an Intrusion Detection System(IDS) for detecting DDoS type attacks against APIs. The reinforcement learning technique is used for making the system to keep updating itself for detecting new attack strategies.

Moway - Virtual self-driving car using Reinforcement Learning (2019)

Python | Keras | Pygame | Reinforcement Learning

Moway is a virtual self-driving car using reinforcement learning to mimic the behavior when it is running with a set of other self-driving cars or rule-based cars. This can be used in observing the impact that the self-driving car can have on damping the traffic bottlenecks caused by rule-based cars.

Jupiter - Human Resource Management System (2018)

PHP | MySQL | JavaScript | HTML | CSS

The project involves designing a complete database management system of Human Resource. We increase database performance by using normalization. It is interesting to do security and access protocols at the database level.

Nano Processor Design (2017)

Xilinx ISE Design Suite | Schematics | Verilog

Development, simulation, and testing of a 4-bit processor on a basys2 FPGA board.

Hospital Management System (2017)

PHP | MySQL | JavaScript | HTML | CSS

This is a web-based hospital management system connecting doctors, patients, staff, and administration of the Hospital.

Treasure Loot Game (2017)

Java | OOPs | Concurrency

This was a multi-thread game to enhance the learning of object-oriented design and programming concepts.

Algorithm aspects of Rubik's Cube 3D Game (2011)

Visual Basic | XAML | WPF

Implemented a 3D application, which was able to play Rubik's cube and find out the method to solve the Rubik's cube.

AWARDS & CERTIFICATES

Young Computer Scientist Competition

Got Bronze Award in National Level & Got 1st Place in Northern Province. Young Computer Scientist Competition ICT Championship 2011.

IEEEExtreme Competition 11.0 | 12.0

Programming Competition for IEEE members, placed within the top 50 Sri Lankans.

Participated in the Shopee Code League 2020

8 weeks online coding challenge consisting of a series of competitions, data science, data analytics, online algorithm questions, and online training workshops.

Participated in the Yarl Geek Challenge 2020

Contributed to open source with Hacktoberfest 2020

Participated in the GameJam+ 2020

EXTRACURRICULAR ACTIVITIES

- © Vice Secretary in Tamil Literary Association - University of Moratuwa in 2020.
- © Islandwide Coordinator, DB Manager in Mora E-Tamils A/L pilot examination Committee.
- © Secretary in Science Union at Jaffna Hindu College in 2013.
- © Active Member in IESL, IEEE, Gaval Club, Tamil Literary Association.

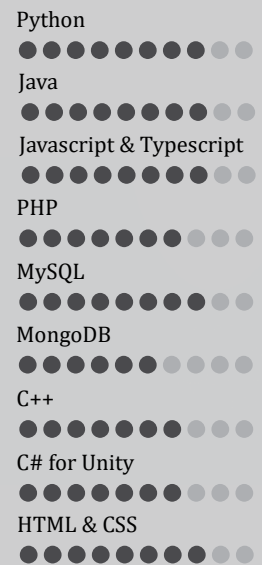
REFEREES

Dr. Uthayasanker Thayasivam (Senior Lecturer)
Department of Computer Science and Engineering,
University of Moratuwa, Sri Lanka.
Email: rtuthaya@cse.mrt.ac.lk
Mobile: +94 763946578

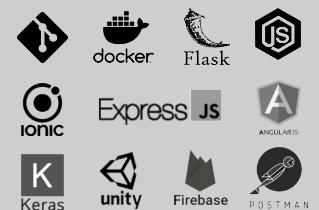
Mr. Amal Dilan Silva
Senior Manager - Software Engineering
ShipXpress Technologies (Pvt) Ltd, A Wabtec Company
Email: amal.silva@Wabtec.com
Mobile: +94 773433745

PROFESSIONAL SKILLS

Programming Language



Also familiar With



Leadership



Team work



Project Scheduling



Graphic Design



Presentation Skills



Communication Skills



LANGUAGES

