ARUNA NUWANTHA

SOFTWARE ENGINEER

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PROFILE

I'm a highly skilled software engineer with **3+ years of experience** developing and designing robust software solutions using Java, Scala and JavaScript. As a computer engineering graduate, I possess a strong foundation in computer science principles, algorithms, and data structures.

EXPERIENCE

SOFTWARE ENGINEER

Pagero AB, Göteborg, Sweden (Remote)   **July 2021 - Present**

- Developed and maintained microservices using Java and Scala, ensuring scalability and high availability.
- Worked extensively with **relational** databases and distributed **non-relational** databases to manage and optimize data storage solutions.
- Implemented functional programming principles to enhance code reliability and maintainability.
- Established Service Level Objectives (**SLOs**) for critical areas of services.
- Experienced in performing time critical and mission critical tasks in the full System Development Life Cycle (**SDLC**) and **Agile** (Scrum) Software Development Processes.
- Demonstrated strong problem-solving and troubleshooting skills with a logical mindset and analytical skills.
- Built responsive and interactive front-end applications using React.js, and Java Wicket framework improving user experience and interface functionality.
- Leveraged Spring Boot to create robust and efficient back-end services, facilitating seamless integration and performance.
- Integrated Elastic Search for advanced search capabilities, enhancing data retrieval and analytics.
- **Technologies**: **Java8, Java17, Scala2, JavaScript, React.js, Spring Boot, Cassandra, Elastic Search, Elassandra, PostgresSQL, Java-Wicket, Promethues, Grafana, RabbitMQ**

R&D ENGINEER INTERN

Synopsys (PVT LTD)   **Jan - June 2021**

- Worked on the ZEBU emulator verification group.
- Involved with three major projects (ACA dashboard, Jira Tracking dashboard, and Code Ownership Tool)
- **Technologies**: **Python, PHP, Javascript, MySQL, Bash, Csh, PerForce**

EDUCATION

University of Peradeniya   **2017- 2021**
B.Sc. Engineering (Hons.)
Specialized in Computer Engineering
GPA: 3.5/4.0

Saranath College   **2008-2016**
G.C.E Advanced Level Examination
Z score - 1.8403

G.C.E Ordinary Level Examination - 9As

PROJECTS

JUNK FURY ⊙
2024

Junk Fury is an immersive 2D game designed to raise awareness about the urgent global issue of sea pollution for hackathon.

Technologies: Flutter, Flame

PIXELIN 🔗
2023

Web application that allows multiple users to collaboratively create pixel art in real-time.

Technologies: TypeScript, NextJS, Prisma, PostgresSQL, Next-Auth

XAMIT
2023

mobile application designed to provide users with an engaging platform for taking quizzes on various topics. The app offers a wide range of quizzes, tracks user progress, and includes interactive features to enhance the learning experience.

Technologies: Flutter, Firebase, Bloc

SMART PILL MANAGER ⊙
2021

Make a device and website to inform you when to take medicines and which number of pills you need to take at that time.

Contribution: Developed the REST API and Frontend and deployed them to the Azure cloud.

Technologies: React, Node.Js, MongoDB, Arduino, Python

Techniques: MQTT, Fingerprint Authentication, JWT, Cloud Computing

CONFIGURABLE ECU EMULATOR ⊙
2021

Build a Configurable Electronic Control Unit Emulator for digital twins in the automobile industry.

Contribution: Research and Development

Technologies: C/C++

HOSPITAL MANAGEMENT SYSTEM ⊙
2020

Web application and Native mobile application with a Database management system.

Contribution: Developed the backend and relational database of the website.

Technologies: HTML, CSS, MySQL, PHP, Flutter, Dart

CPU IMPLEMENTATION
2020

Implemented 8-bit ALU with memory management that can execute a binary code with given Instruction Set Architecture such as add, sub, and, or, j, loadi, beq, etc.

Contribution: Designing the data path, Implementation of the processor

Technologies: Verilog HDL

DATING SITE FOR PETS
2020

Online dating Web Application which can include pet details for hackathon competition.

Contribution: Frontend Implementation

Technologies: React, Firebase

MINI PROJECTS

Auction Server: Implemented a sample server that can be used by clients to bid for items in a stock exchange.
- **Techniques: Java, Threads, Synchronization primitives, Sockets, OOP, and Collections**

Mind Relaxing Game: Implemented Light Pattern Identifier game using Arduino.
- **Technologies**: **MATLAB, Arduino**

Card Reader: Implemented mobile app to recognize the scratch card numbers
- **Technologies**: **Flutter, Firebase ML Text recognizer**

Bike Renting System: train a Machine Learning model so that we will be able to predict the number of bicycles needed each day.
- **Technologies:** Python, Numpy, Pandas, Regression ML Model

PathFinder: Line following robot using basic electronic components

TECHNICAL SKILLS

Programming Languages:	JavaScript, Java, Scala Python, Dart, PHP
Web Development:	React.Js, Express.Js, HTML, CSS, Node.Js, Next.Js
Databases:	PostgresSQL, Cassandra, MYSQL, MongoDB
Mobile Development:	Flutter, React- Native, Android studio
Cloud Computing:	GCP, AWS, Heroku
Operating Systems:	Linux, MacOs, Windows
Version Control:	Git, PerForce

ACHIEVEMENTS

Global Gamers Challenge Participant   2024
Completed the Global Gamers Challenge with the development of Junk Fury, demonstrating skills in game design and implementation.

Synopsys Code Engine contest   2022
Second runner up (from 200+ competitors)

Google Code Jam Round 2   2021
world rank: 3996 (from 90000+ competitors)

Google Hash Code Round 1   2021
world rank: 5563 | country rank: 11
(from 125000+ teams)

ACES Coders v8.0 - UoP   2021
country rank: 21 (200+ Teams)

94DEV Coding Competition   2021
country rank: 4 | competitive programming

Finalist - Hackthon UoP   2019
project: Dating website for pets

CERTIFICATIONS

Microsoft certified Microsoft Azure Fundamentals   2021
Issuer: Microsoft corporation

Flutter Development Bootcamp with Dart   2021
Issuer: Udemy

Data Scientist Program   2021
Issuer: Data insight

Cisco certified Programming Essentials in Python   2021
Issuer: Cisco Networking Academy

Arduino Platform and C Programming   2020
Issuer: University of California, Irvine | Coursera

Data Structures and Algorithms Specialization   2020
Issuer: UC San Diego | Coursera

EXTRA-CURRICULAR ACTIVITIES

Committee Member   2022
Organizing committee of ACES Coders v9.0

Committee Member   2019
Knowledge without Borders Society
University of Peradeniya

Active Member   2019
Aces organization | University of Peradeniya

Active Member   2019
Hackers club | University of Peradeniya

Committee Member   2018
Gavel club | University of Peradeniya

REFERENCES

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