









AKILA D. PERERA

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You are looking at a programmer, web-developer, designer and moreover a computer science engineer, who is highly motivated and responsible team-player with the right blend of logical, analytical and interpersonal skills. Being an innovative thinker, listener and quick learner, I am confident that I can get on well with any new environment quickly. With that background, I am willing to join your company to start my career in software engineering.

EXPERIENCE

Software Engineer Intern: GE Transportation | Jun 2017 – Nov 2017

Angular, Typescript, Serenity, Cucumber, REST Assured, Spring, PostgreSQL, IntelliJ Idea, Docker, Git are some of technologies and tools that were practically used for my development and testing in this period of time.

Freelance Developer: Fiverr | www.fiverr.com/akiladarshana | Apr 2014 – Present

I am offering java/python programming supports for my valued customers in above platform. As a reason of commitment and dedication to the services that I am offering, I could be able to maintain my profile as a level one seller in Fiverr with 100+ five stars positive feedback.

PROJECTS

FYP: Automatic Code Generation Framework for Computational General Relativity

UoM | Jan 2018 - Present

There is a Python based code generation framework called DENDRO which can be used to generate C++ code to solve Einstein equations in BSSN formalism. At the time we took over the project, the code generated by DENDRO was completely sequential but there were some optimizations on memory management in terms of CPU architecture. Our task was to introduce GPU parallelism to the process by GPU architecture specific code generation implementation.

Technologies:

- Python
- C++
- CUDA
- SLURM Scripting for execute the code on Kingspeak servers in University of Utah

DM & ML Project - DengueAI: Predicting Disease Spread | UoM | Jan 2018 – Jul 2018

This project was based on a competition in DRIVENDATA online platform. In here we had to develop a machine learning model to predict number of dengue patients once a set of features given for a particular week.

Technologies:

- Jupyter Notebook – IPython
- Pandas | matplotlib | scikit-learn

EZReports | UoM | Feb 2017 – May 2017

This was the 5th semester project done for gov. schools, Sri Lanka. Main requirement was calculating z-scores of advance level students on their term tests and ranking them. System consists of both windows desktop application and web application.

Try <https://ezreports.herokuapp.com/> link for demo web application - use 140157 as index number

Technologies:

Desktop Application

- Java 8
- JTattoo look & feel
- JFreeChart
- SQLite DB
- Unirest: HTTP Request Client Library
- JavaMail
- Trident: Animation library for Java
- OOP | MVC

Web application

- Django: Python web framework
- Django REST framework
- PostgreSQL DB
- HTML | CSS | JS
- JQuery | Bootstrap

GPA Calculator | Personal | 2016

This is a web application that helps students of University of Moratuwa, to calculate their semester GPA, current GPA and to keep the history of their grades.

Technologies:

- Django: Python web framework
- SQLite DB | Django ORM
- SMTP for mailing
- Requests | BeautifulSoup in Python for web-scrape
- HTML | CSS | JS
- JQuery | Bootstrap

SKILLS

Languages	Frameworks	IDE
<div>Python50%</div> <div>Java40%</div> <div>C++30%</div> <div>JavaScript75%</div> <div>CSS HTML75%</div>	<div>Django50%</div> <div>Node Express40%</div> <div>Angular40%</div> <div>CUDA50%</div>	VSC Eclipse NetBeans Spyder IntelliJ IDEA
		Interpersonal Skills
		Teamwork Teaching Positive Attitude Time Management Open-minded

EDUCATION

University of Moratuwa, Sri Lanka | 2014 – Present

B.Sc. Eng. (Hons) in Computer Science & Engineering
CGPA: 3.60

Sivali Central College, Ratnapura | 2000 – 2013

GCE Advance Level Examination | 2013 | Physical Science stream
Physics – A | Combined Maths – A | Chemistry – A
Z-Score: 2.0477 | Island Rank: 556

GCE Ordinary Level Examination | 2010
A – 8 | B – 1

ONLINE CERTIFICATIONS

Python Data Structures - University of Michigan | www.coursera.org

List | Dictionary | Tuple | Set

Using Python to Access Web Data - University of Michigan | www.coursera.org

JSON | XML | Web-Scraping

Using Databases with Python - University of Michigan | www.coursera.org

DB | SQL | SQLite

Interactivity with JavaScript - University of Michigan | www.coursera.org

JS Syntax | Interactivity | Web Development

Introduction to CSS3 - University of Michigan | www.coursera.org

Web Design | Cascading Style Sheet

REFERENCE

Available upon request