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## Interests

- Full Stack Development
- Software Development
- Mobile App Development
- Machine Learning
- Image Processing
- Cloud Computing
- DevOps
- IoT

## Education

- **University of Peradeniya**  
Undergraduate in BSc. Engineering in  
Computer Engineering  
GPA 3.71/4.00  
(December 2018 - Present)
- **Bandarawela Central  
College**  
Passed advanced-level in Physical  
Science Stream with 2A's and 1B  
(January 2015 - August 2017)

## Skills

### Programming Languages

C, C++, Java, Python, JavaScript,  
SQL, Arduino, Verilog

### Web Technologies -

NodeJS, Express JS, ReactJS

### Database Systems -

MySQL, MongoDB

### Web Services -

AWS

### Tools -

Git, GitHub, Postman, Docker

# SACHINTHA GUNATHILAKA

COMPUTER ENGINEERING UNDERGRADUATE

## Profile

I am a highly motivated, hardworking Computer Engineering undergraduate who is eager to, explore new knowledge and gain experiences in various fields.

## Projects

- **Smart Pet Feeder - Smart Solution for Feeding Pets**   
IoT-based solution for feeding pets remotely or automatically based on a given schedule.
  - **Tools and Technologies** - React, React Native, NodeJS, MongoDB, AWS, Embedded Systems, MQTT
  - **Contribution**- Frontend Development, Mobile Application Development, System Design, Cloud Integration
- **Document Tag Generator**   
Data-driven solution for generating tags for projects in the university of Peradeniya computer department projects website.
  - **Tools and Technologies** - Machine Learning, Web Scraping and Automation, Azure DevOps, Jekyll
  - **Contribution**- Machine Learning Model, Web scraping, Azure DevOps
- **Reconstruction of Highly Degraded License Plate Images**   
Image Processing solution for reconstruction of low-resolution license plate images obtained from CCTV footage.
  - **Tools and Technologies** - Python, OpenCV, OCR
- **Fractals Generator using Java**   
A multi-threaded GUI app that generates the Mandelbrot and Julia sets based on user specifications
  - **Tools and Technologies** - Java, Swing
- **8-bit Single Cycle Processor**   
An 8-bit single-cycle processor design with a MIPS-style instruction set.
  - **Tools and Technologies** - Verilog HDL
- **Compiler for COOL Language**   
A 4-stage compiler for the COOL programming language including Lexical Analyzer, Parser, Semantic Analyzer, and Code Generator.
  - **Tools and Technologies** - C++, Flex

## Extra-Curricular Activities

- **Maths/Science Tutor**

*Arunella Education  
Welfare Programme*

*(August 2019 - November 2019)*

- **Volunteer of Project  
Nenathambara**

*Tutorial on Arduino  
programming for  
Srilankan students.*

*March 2022 - May 2022*

## Achievements

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- **ACES AI Hackfest**

Won 1st place in Education and Entertainment Category for the project, History of Music based on Machine Learning.

*(May 2022)*

## Certification

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- **NodeJS - The Complete Guide (MVC, REST APIs, GraphQL, Deno).**

*Udemy*

*Issued Nov 2021 · No Expiration Date*

*Credential ID UC-589f9f19-78ed-4e1d-9d00-f97cb165b4e0*

- **React - The Complete Guide (incl Hooks, React Router, Redux).**

*Udemy*

*Issued Nov 2022 · No Expiration Date*

*Credential ID UC-b691ea2c-e01d-465f-a15f-5571d6ff3009*

- **React Native - The Practical Guide [2022].**

*Udemy*

*Issued Nov 2021 · No Expiration Date*

*Credential ID UC-1350768f-bac1-4d69-9845-5985f9a5753a*

## Relavant Coursework

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- Data structures & Algorithm
- Machine Learning and Data Mining
- Image Processing
- Operating Systems
- Database Management
- Software Methodology
- Network and web applications
- Compilers
- Computer Architecture
- Embedded Systems
- Electronics

## References

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**Prof. Roshan G. Ragel**

Professor,  
Dept. of Computer Engineering,  
University of Peradeniya

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