

JOSEPH SEBASTIAN | RESUME



- » **Status:** M.Sc. Digital Media, Fullstack JS Engineer
- » **Fields:** Project Management, Software Development, Consulting
- » **Tech:** Meteor, Javascript, Bootstrap, Mongodb, Git, Webstorm, Sourcetree
- » **Loves:** Global Game Jam, Sci-Fi series, Stackoverflow, Fitness and Martial Arts

Summary

Self-motivated and proactive student researcher, passionate about image processing, machine learning and computer vision. Studnet Intern at Dashfactory GmbH and active team-member of munichMotorsport e.V. Formula Student racing team.

Experience

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| 09/2021 - Present | Master Thesis
Ergosign GmbH |
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| 02/2021 - 07/2021 | Software Development Intern
Dashfactory GmbH, Leipzig |
| | – Design and develop product firmware for communication and data logging of an IoT device with components such as Bluetooth, drivers for sensors, etc.
– Support the team with App integration, product testing, etc. |
| 04/2020 - 12/2020 | Student Research Assistant
Iconet Imaging GmbH, Traunstein |
| | – Design custom models and image processing techniques to solve problems in object detection, classification of likely featured classes.
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| 08/2019 - Present | Team member
munichMotorsport e.V., Munich |
| | – Develop object detection pipeline for driver-less system.
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Education

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|-------------------|--|
| 03/2019 - Present | Master of Engineering (M.Eng) Mechatronics
Technische Hochschule Rosenheim |
| | – 2,0 GPA (currently)
– Focus on Image Processing, Machine Learning |
| 08/2014 - 05/2018 | Bachelor of Technology (B.Tech) Mechanical Engineering
Amal Jyothi College of Engineering, Kerala, India |
| | – 2,1 GPA
– Winner of I2U project competition for "Design and development of a gamma type Stirling engine" |

Projects

10/2020 - 02/2021

All Sky Images Cloud Detection

Technische Hochschule Rosenheim

– Developed semantic segmentation models, to distinguish clouds as part of the solar energy estimation pipeline, with data recorded at TH Rosenheim.

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09/2019 - 02/2020

Mater project: Optical Enamel Inspection of Oven Cavities

Technische Hochschule Rosenheim

– Designing, prototyping of camera test rig, Arduino based control system, lighting unit design and development of software to remove reflections.

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Skills

Software

- Python
- C, C++
- Git, Gitflow
- Docker, containerized development
- Embedded development (Arduino, ESP32)
- Docker, containerized development

Machine Learning

- Scikit-learn, Pandas, NumPy, Matplotlib
- Tensorflow, PyTorch
- OpenCV
- Image Classification, Object Detection, Instance Segmentation
- Statistics
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Soft Skills

- Predictive Modelling
- Critical Thinking
- Problem Solving
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Additional Skills

- MS Office
- CATIA V5, SolidWorks
- CNC Programming, MasterCAM X8
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Languages

- English
- German
- Malayalam
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