

Marco MARRA

Research Software Engineer
6524 AE Nijmegen

An intuitive, solution-oriented biomedical engineer with a passion for computers and technology. There are no impossible challenges, only complex problems to solve. That's what I stand for. I get energy from always learning new things and developing myself a step further.

Embraces modern best practices of software development and agile teams · In the process of obtaining the AWS Certified Cloud Practitioner certification.

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 marcopus

Experience

Research Software Engineer

Radboudumc · Diagnostic Image Analysis Group

Jan 2021 - Dec 2021

Software development in lung cancer screening research and backend development for Django-based web app Grand-Challenge.org · Worked on a product team using agile practices and CI/CD systems · Picked up complex (CIRRUS on MeVisLab) web applications quickly · Picked up Docker and worked on app containerization, refactoring, testing, feature development, and code review

Assistant Professor

University of Twente · Biomechanical Engineering

Nov 2017 - Dec 2020

Setting up a DevOps culture within the research team, including CI/CD and version control tools, for code development aimed for reuse by fellow researchers and in student projects

Researcher

Radboudumc · Orthopaedic Research Lab

Jan 2014 - Oct 2017

Worked in a multicultural research project on development and validation of computational models of the implanted knee in OOP language and Python · Identified and evaluated solutions (including machine-learning and external C++ computational libraries) to improve model efficiency · Presented award-winning papers at international scientific journals and symposia

Internship

AnyBody Research Group · Aalborg University

Oct 2013 - Dec 2013

Became acquainted with OOP language for musculoskeletal modeling AnyScript · Familiarized with enterprise-level CI/CD pipelines, version-controlled code and teamwork

Education

Radboud Institute for Health Sciences

PhD in Medical Sciences

Oct 2013 - Apr 2019

Thesis title: Personalized musculoskeletal modeling of the knee joint.

Politecnico di Torino

Master of Science in Biomedical Engineering

Sep 2011 - Jul 2013

Thesis title: Study of dens fracture in the elderly and the role of osteoporosis with a finite element model.

Royal Institute of Technology

Erasmus exchange programme

Sep 2012 - Jun 2013