Marco Marra
Research Software Engineer
Born in Galatina, Italy

About me

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.

Skills

Python	MeVisLab	C++	Git

CI/CD	Docker

Contact

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⬡ marcopus

💼 Experience

Research Software Engineer
Radboudumc · Diagnostic Image Analysis Group Nijmegen
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 Enschede
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 Nijmegen
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 Aalborg, Denmark
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
Bioinformatics course: intro to Python, code version control and reusability