MIKEL
ROBREDO MANERO

PERSONAL DETAILS

Researcher ID:
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Date of CV:
21/06/2023

Current location:
Tampere – 33180 (Finland)

Telephone number:
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LinkedIn:
www.linkedin.com/in/robredomikel

GitHub:
https://github.com/robredomikel

SOFT SKILLS

Perseverant

Team worker

Pragmatic

DIGITAL SKILLS

Programming: Python, C++, R, Matlab, Scala (Spark)

Version control: Github, Gitlab, Git workflow

LINUX: Projects held in Linux system

LATEX: Used for scientific writing

PERSONAL PROFILE

My academic career has brought me through different fields of study like Economics in my Bachelor's degree, as well as Statistical Data Analysis in my Master. These studies have made me learn different knowledge domains as well as powerful skills of adaptation and curiosity towards new fields.

Similarly, it is through my Master's thesis when I find the opportunity to perform data analysis in Empirical Software Engineering and introduce myself into the field. Apart from obtaining good results for the thesis (4/5), the experience gained on mining software repositories made me realize the massive source of information this domain can provide for potential studies where statistics and data science are involved. I strongly believe that Empirical Software Engineering has many discoveries waiting ahead, and my knowledge in domains like Statistics and Data Science can lead me into a research career in which make my professional contribution.

CORE SKILLS

- Analysis with time dependent data
- Data Structures and Algorithms
- Statistical Modelling and inference
- Mining Software Repositories
- Hypothesis testing and Regression Analysis
- Machine Learning

EDUCATION AND TRAINING

Master's Degree in Computing Sciences: Statistical Data Analytics (21/08/2021 – xx/06/2023)
Tampere University, Tampere (Pirkanmaa), Finland
Overall grade: 4.38/5

Potential competences:

- Time Series Analysis (4/5)
- Machine Learning Algorithms (5/5)
- Statistical Modelling I & II (5/5)

Statistical Data Analytics, Computing Sciences | Tampere universities (tuni.fi)

Thesis: "Measuring the impact of Sonarqube on the development velocity using regression analysis"

- Grade: 4/5
- Keywords: Regression Analysis, Empirical Software Engineering, Development velocity.
- Data collection performed through mining software repositories and analysed through statistical methods.

- Key Achievements:

  - Collaboration in a cohort study implemented in the Empirical Software Engineering field.
  - Statistical data analysis on microservices.
  - Expertise gaining in scientific writing.

Funding of studies: Scholarship for professional improvement of young postgraduates. (2021, Deputy of Biscay)

Bachelor's Degree in Economics (11/09/2016 – 17/07/2020)
Faculty of Economics and Business of Sarriko (UPV-EHU) – Bilbao (Bizkaia), Spain
Overall grade: 8/10

Potential competences:

- Statistics and data analysis (8.20/10)
- Programmed mathematics (9/10)
- Microeconomics (9.50/10)

https://www.ehu.eus/es/grado-ekonomia

LANGUAGE SKILLS

SPANISH – Mother tongue

BASQUE – Mother tongue (C1)

ENGLISH – Advanced (C1)

ITALIAN – Advanced (C1)

FINNISH – Basic (A2)

INTERESTS

Outdoor sports

Reading

Travelling

OTHER EDUCATION

Erasmus mobility in International Economics (20/09/2019 - 22/02/2020)
Università degli Studi di Milano – Bicocca, Milano (Lombardy), Italy

Potential competences:

- Data driven decision-making (8/10)
- Advanced macroeconomics (8/10)

RESEARCH CAREER

Master's thesis in collaboration with Empirical Software Engineering research group (January 2023 – May 2023)
Tampere University – Tampere (Pirkanmaa), Finland

Undertook the data collection process and statistical analysis pertaining to the scientific article "Does SonarQube Impact the Development Velocity? A Preliminary Study." submitted to ESEM 2023.

- Employed the Mining of Software Repositories from Apache Software Foundation Projects.
- Conducted the data cleaning and preprocessing subject to the article's requirements.
- Performed a statistical analysis through regression analysis to analyse the impact of SonarQube on software projects.

Junior Research Assistant in Empirical Software Engineering on Software, Systems and Services (May 2023 – Present)
University of Oulu – Oulu (North-Ostrobothnia), Finland

Undertaking mining software repository assignments and statistical analysis on scientifical research as well as scientific writing.

- Currently collaborating on multiple research lines.
- Forecasting to work on projects pertaining time dependent data analysis.

RESEARCH OUTPUT

Does Microservices Adoption Impact the Development Velocity? A Cohort Study. A Registered Report (link)

- Study plan to investigate the effect of microservices on development velocity.
- Software: Python.
- Data sources: World of Code Organization, GitHub.

MEASURING THE IMPACT OF SONARQUBE ON THE DEVELOPMENT VELOCITY USING REGRESSION ANALYSIS (link)

- Statistical analysis of the impact of SonarQube as a factor affecting the variance of the development velocity in software development projects.
- Software: Python, R.
- Data sources: GitHub, JIRA, SonarCloud.

EXTRACURRICULAR ACTIVITIES

Professional rower (05/10/2019 – 11/09/2021)
Kaiku Rowing Club – Sestao (Bizkaia), Spain

- Two years in the first rowing league of Spain.
- Constant emphasis on teamwork, sacrifice and discipline.
- Added to 5 previous years of rowing experience in the lower categories.

CDR Kaiku AKE – Eusko Label Liga de traineras