Giorgio De Simone

Curriculum Vitæ

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Personal information

Date of birth **28/05/1993**.
Nationality **Italian**.

Experience

Vocational

January 2023 to Today

QE Performance Engineer, *EMM SYSTEM CONSULTING*, Naples, Italy, Remote Working.
ROLE: Consultant at Walgreens Boots Alliance.
MAIN RESPONSIBILITIES: Pharmacy and Healthcare Product Engineering – Technology Solutions.
MAIN ACTIVITIES: Evaluating and ensuring the performance, scalability, and reliability of software applications; specifically conducting Performance Testing, Benchmarking, Identifying Bottlenecks, Scalability Testing, Performance Monitoring, Automation, Reporting and Documentation.
EMPLOYED AS: Full-time employee; permanent employment contract.
TOOLS & TECHNOLOGIES:
- Cloud computing services
  - Microsoft Azure;
- Programming languages
  - Python;
  - Groovy;
- Integrated Development Environments
  - PyCharm;
  - Android Studio;
- Application Programming Interfaces
  - REST API;
- Collaboration platforms for API development
  - Postman;
- Load Testing Tools
  - Apache JMeter;
- Database systems
  - NoSQL;
- Domain-specific languages
  - SQL;
- Container orchestration systems
  - Kubernetes;
- Version control systems
  - Git;
- Issue tracking systems
  - Jira;
- Collaborative software
  - Confluence.

July 2022 to January 2023	**RPA Engineer**, *FORFIRM*, Manno, Switzerland, On-site.

ROLE: Consultant at Cornèr Bank.
MAIN RESPONSIBILITIES: Banking Software Products – Technology Solutions.
MAIN ACTIVITIES: Designing, developing, implementing, and maintaining Robotic Process Automation solutions. Developing software robots (bots) to automate repetitive, rule-based tasks, typically performed by humans; specifically conducting Process Analysis, RPA Solution Design, Development of RPA Bots, Integration, Implementation and Deployment, Maintenance and Optimization, Security and Compliance, Training and Support.
EMPLOYED AS: Full-time employee; permanent employment contract.
TOOLS & TECHNOLOGIES:
- Programming languages
  - AutoHotkey;
  - JavaScript;
- Integrated Development Environments
  - AHK Studio;
- Document Processing Platform
  - Hyperscience;
- Version control systems
  - Git.

January 2022 to July 2022 — **QA Performance Engineer**, *EMM SYSTEM CONSULTING*, Naples, Italy, Remote Working.

ROLE: Consultant at Walgreens Boots Alliance.
MAIN RESPONSIBILITIES: Pharmacy and Healthcare Product Engineering – Technology Solutions.
MAIN ACTIVITIES: Evaluating and ensuring the performance and reliability of software applications; specifically conducting Performance Testing, Automation, Reporting and Documentation.
EMPLOYED AS: Full-time employee; permanent employment contract.
TOOLS & TECHNOLOGIES:
- Cloud computing services
  - Microsoft Azure;
- Programming languages
  - Groovy;
- Integrated Development Environments
  - Visual Studio Code;
- Application Programming Interfaces
  - REST API;
- Load Testing Tools
  - Apache JMeter;
- Database systems
  - NoSQL;
- Domain-specific languages
  - SQL;
- Container orchestration systems
  - Kubernetes;
- Version control systems
  - Git;
- Issue tracking systems
  - Jira;
- Collaborative software
  - Confluence.

September 2021 to December 2021	**Test Performance Engineer**, *ALTEN*, Bologna, Italy, Remote Working. ROLE: Consultant at Mediolanum Bank. MAIN RESPONSIBILITIES: Banking Software Products – Technology Solutions. MAIN ACTIVITIES: Evaluating and ensuring the performance of software applications; specifically conducting Performance Testing, Automation, Reporting and Documentation. EMPLOYED AS: Apprentice. TOOLS & TECHNOLOGIES:

- Software Testing Tools
  - LoadRunner – VuGen;
  - LoadRunner – Controller;
  - LoadRunner – Analysis;
- Programming languages
  - C;
  - C++;
- Application Programming Interfaces
  - REST API;
- Collaboration platforms for API development
  - Postman;
- Version control systems
  - Git.

May 2021 to August 2021	**Test Automation Engineer**, *ALTEN*, Milan, Italy, Remote Working. ROLE: Consultant at Mediolanum Bank. MAIN RESPONSIBILITIES: Banking Software Products – Technology Solutions. MAIN ACTIVITIES: Designing, developing, and implementing automated testing solutions to ensure the quality and reliability of software applications, focusing on automating repetitive and manual testing tasks, allowing for faster and more efficient testing processes; specifically conducting Requirement Analysis, Tool and Framework Selection, Test Automation Planning, Scripting and Coding, Test Data Management, Execution and Reporting, Regression Testing, Maintenance and Updates, Documentation. EMPLOYED AS: Trainee. TOOLS & TECHNOLOGIES:

- Frameworks
  - Selenium;
  - Appium;
  - Katalon;
- Programming languages
  - Java;
  - Groovy;
- Behavior-driven developments
  - Cucumber;
  - Gherkin;
- Version control systems
  - Git;
- Integrated Development Environments
  - IntelliJ Idea;
  - Android Studio;
  - Eclipse.

▬▬▬▬ Education

September 2021	**Admission to second cycle degree in Artificial Intelligence**, *University of Bologna*, Bologna, Italy. *Skills: Ability To Write An Algorithm, Computer Programming, Functional Programming, Procedural Programming, Python (Programming Language), Object-Oriented Programming (OOP).* Click here to the certificate section on GitHub.

March 2021	**Degree in Mathematics**, *University of L'Aquila*, L'Aquila, Italy. *Grade: **108/110**.* *Skills: Mathematical Analysis, Calculus, Differential Equations, Linear Algebra, Algebra, Probability, Numerical Analysis, Matlab, C (Programming Language), C++, Java, Mechanics and Thermodynamics, Electromagnetism, Differential Geometry, Topology, Cryptography, Magma (Computational Algebra System), Algebraic Topology, Quantum Mechanics, Functional Analysis, LaTeX.* Click here to the certificate section on GitHub.
August 2014	**IELTS**, *British Council – IDP – Cambridge Assessment English*, Cork, Ireland. *Grade: **6.0**.* *Skills: English language.* Click here to the certificate section on GitHub.
July 2014	**Certificate of Achievement of IELTS Preparation Course**, *Cork English College*, Cork, Ireland. Level: **B2+ Upper Intermediate**. *Skills: English language.* Click here to the certificate section on GitHub.
2013 to 2014	**Full time student of English**, *Rosscarbery English School*, Rosscarbery, Ireland. Certificates: **Letter of reference**. Click here to the certificate section on GitHub.
July 2012	**High School Diploma in Classical and Ancient Studies**, *Liceo Classico Gabriele D'Annunzio*, Pescara, Italy. *Grade: **95/100*** Click here to the certificate section on GitHub.

▬▬▬ Thesis

Title	*Delay numerical modeling of epidemiology.*
Supervisors	Raffaele D'Ambrosio, Full Professor in Numerical Analysis, DISIM, University of L'Aquila.
Description	The thesis concerns the SARS-CoV2 (COVID-19) pandemic that, starting from the end of February 2020, began spreading along the Italian peninsula. The main purpose of this thesis is the creation of a forecast model — based on Delay differential equations (DDEs) — that manages to alert the decision-making bodies and, in particular, the healthcare system, to hinder the emergence of any other pandemic outbreaks, or the arrival of subsequent pandemic waves. A new mathematical model to describe the pandemic is given. The model includes the class of undiagnosed infected people, and has a multi-region extension, to cope with the in-time and in-space heterogeneity of the epidemic. As a result we obtain a robust and reliable tool for the forecast of the total and active cases, which can be also used to simulate different scenarios. Lastly, we are able to address a number of issues, such as assessing the adoption of the lockdown in Italy, started from 11 March 2020, and how to employ a rapid screening test campaign for containing the epidemic.
Released	March 2021
Link	Click here to the document section on GitHub.

▬▬▬ Scientific writings

Title	*Introduction to Algorithms and Programming.*
Description	Notes related to the 'Introduction to Algorithms and Programming' course (Second Cycle Degree/Two-Year Master in Artificial Intelligence) – offered by the University of Bologna and held by Professor Simone Martini – which concerns rudiments of programming in Python.
Released	June 2023

Link Click here to the document section on GitHub.

Licenses & certifications

January 2024 **[PCEP-30-02] PCEP – Certified Entry-Level Python Programmer**, *OpenEDG Python Institute*.
Skills: Ability To Write An Algorithm, Computer Programming, Functional Programming, Procedural Programming, Python (Programming Language).
Description: Earners of the PCEP – Certified Entry-Level Python Programmer certification have knowledge of the universal concepts of computer programming, the syntax and semantics of the Python language as well as demonstrate the ability to accomplish coding tasks related to the essentials of programming in the Python language and fundamental skills in resolving typical implementation challenges with the help of the Python Standard Library.
Click here to the certificate section on GitHub.
Click here to the certificate section on OpenEDG Python Institute.

August 2014 **IELTS**, *British Council – IDP – Cambridge Assessment English*, Cork, Ireland.
Grade: **6.0**.
Skills: English language.
Click here to the certificate section on GitHub.

Languages

Italian **Mother tongue**.
English **C2 – C1**.

Computer skills

Application software	**MATLAB**, **Magma**	Frameworks	**Selenium**, **Appium**, **Katalon**
Programming languages	**Python**, **Java**, **Groovy**, **C**, **C++**, **JavaScript**, **AutoHotkey**	Platforms for API development	**Postman**
Markup languages	LaTeX	Version control systems	**Git**
Integrated Development Environments	**PyCharm**, **IntelliJ Idea**, **Android Studio**, **Eclipse**, **Visual Studio Code**, **AHK Studio**	Software Testing Tools	**LoadRunner: VuGen, Controller, Analysis**
Operating systems	**MacOS**, **Microsoft Windows**	Office Suites	**Microsoft Office**
Behavior-driven developments	**Cucumber**, **Gherkin**	Load Testing Tool	**Apache JMeter**
Cloud computing service	**Microsoft Azure**	Issue tracking systems	**Jira**

Collaborative software	**Confluence**	Domain-specific languages	**SQL**
Container orchestration systems	**Kubernetes**	Document Processing Platform	**Hyperscience**
Database system	**NoSQL**	Application Programming Interfaces	**REST API**