

RICARDO BURGOS LARA

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Amsterdam, NL



SUMMARY

I'm looking to start my professional career in The Netherlands either as a software engineer, data scientist or machine learning/artificial intelligence expert. I consider myself a highly motivated person who is constantly learning new skills and putting these skills into practice at the workplace. I enjoy working with technology being particularly interested in software engineering, programming languages, and applied AI algorithms. Before switching to computer science, I worked many years as a civil engineer during which I was able to combine engineering concepts and tech skills in designing and implementing applications, databases, calculation spreadsheets and other tools.

EDUCATION

- **Oct. 2022** – BSc. Computer Science. Minor Data Science
Vrije Universiteit Amsterdam, The Netherlands.
- **Oct. 2008** – BSc. Civil Engineering
Universidad Centroamericana José Simeón Cañas, El Salvador.

WORK EXPERIENCE

- **TEACHING ASSISTANT, MACHINE LEARNING COURSE**
Vrije Universiteit Amsterdam | The Netherlands | *Feb. to Apr. 2022*
 - Conduct tutorial sessions, Q&A and academically assist students; review and grade student's final projects.
- **CIVIL/STRUCTURAL ENGINEER**
Multiple job experiences | El Salvador | *2007 to 2018*
 - Information available upon request.

COMPUTER SKILLS

- Thesis: *"Neural Machine Translation from English questions to SPARQL queries"*. Research project consisted in testing and comparing different Deep Learning architectures to effectively translate questions from natural language to a query language for the semantic web.
- Operating Systems: Windows 10/11 and Linux (Debian, Ubuntu, Slackware).
- System programming: UNIX shell including Inter Process Communication; memory allocator; virtual file system in user space based on FUSE; key-value storage implementing concurrency; JVM Instruction Set Architecture in C, Web sockets implemented in C++.
- Game programming: Snake and Tetris using functional programming concepts, Fantasy Football online game implemented in Java using RESTful API to retrieve data.
- Microsoft Office advanced user (Word, Excel, PowerPoint, Access, Outlook and Project); LibreOffice; Google docs.
- Programming languages:
 - Microsoft .NET platform: Visual Basic, C#.
 - VBA for Excel.
 - C / C++ 11.
 - Java.
 - Functional programming: Scala, Julia, IJulia.
 - Python, iPython (Pycharm / Jupyter Notebooks), Anaconda.
 - Web: HTML 5, CSS 3, JavaScript, REST API.
 - Relational Databases and DBMS: SQL, MySQL, MySQL Workbench.
 - Statistical Languages: R, rstudio, statsmodels.
 - Other languages: json, xml.

- Version Control Systems: Git, Github.
- Virtualization and containers: VirtualBox, docker.
- UNIX/Linux tools: bash (scripting), zsh, grep, awk, find, tar, gzip, gdb, gcc, llvm, valgrind, vim, etc.
- Advanced use of numeric/scientific software: Matlab/Octave, Scilab, numpy, scipy, Julia.
- Machine Learning / Deep Learning frameworks: TensorFlow, PyTorch, Scikit-Learn.
- General knowledge of local area networks, wireless networks (Wi-Fi), TCP/IP protocols.
- General knowledge of computer hardware and peripheral configuration.

LANGUAGES

- **Spanish:** Native
- **English:** Advanced – (CERF C1)
- **Italian:** Advanced – (CERF C1)
- **German:** Beginner – (CERF A1)
- **Dutch:** Beginner – (CERF A1)

COMPETENCIES & SKILLS

- Versatile, fast learner.
- Integrity and strong ethical principles.
- Self-driven, self-motivated, focused on goals and results.
- Propositive and cooperative.
- Adaptable and resilient.
- Efficient time management and planning skills.
- Friendly and respectful to other's opinions.

COURSES, SEMINARS & TRAININGS

- **MACHINE LEARNING COURSE** – Dec. 2021, Stanford Online / Coursera (online)
- **UP AND RUNNING WITH VI** – Oct. 2016. Lynda.com (online)
- **LEARN THE LINUX COMMAND LINE: THE BASICS** – Aug. 2016. Lynda.com (online)
- **UP AND RUNNING WITH GNU OCTAVE** – Jun. 2016. Lynda.com (online)
- **SPSS AND MICROSOFT ACCESS ADVANCED COURSE** – May–Jun. 2014, Consultores en Estadística e Informática S.A. de C.V., El Salvador.
- **MICROSOFT PROJECT AND ITS APPLICATIONS TO PROJECT MANAGEMENT** – Feb – Mar. 2013, UCA, El Salvador.
- **APPLICATION DEVELOPMENT WITH MICROSOFT VISUAL BASIC .NET** – Dec. 2007, UCA, El Salvador.

REFERENCES

Please feel free to contact anyone in the following list if you require professional/personal references.

- **Walter M. Salazar Guerra, PhD.**
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