

Enrique Garcia Perez

SOFTWARE ENGINEER · FULL-STACK DEVELOPER

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"It always seems impossible until its done."

Summary

Algorithm design, problem solving, design thinking, software architecture, 6+ years Java experience. 1+ year Objective-C, C#, Javascript and Python experience. Solid machine learning foundations. Strong leadership and communication skills.

Experience

SAP Innovation Center

Potsdam, Germany

FULL-STACK SOFTWARE DEVELOPER

Nov. 2013 - present (3 Years)

- Design and maintenance of continuous integration pipeline using Python, Ansible and EC2 instances
- Research on machine learning approaches to analyze EMRs (Electronical Medical Records)
- Implementation of a source code analysis tool in Java
- UI Interaction design and development using jquery, sapUI5, javascript, etc.
- Application definition from Business Model to Go-To-Market Strategy

Massachusetts Institute of Technology AgeLab

Boston, USA

RESEARCH ASSOCIATE

Jun. 2012 - Sep. 2013 (15 months)

- Master Thesis: A Symbolic Approach for Classification of Cognitive Workload in Drivers
- Database design, implementation and administration

Siemens IT Solutions and Services Ptd. Ltd.

Singapore

INTERN

Aug. 2011 - Oct. 2011 (3 months)

- Implementation of SharePoint workflows to improve internal IT business processes. Reduced in 30% the time required to process a customer inquiry

Technical University Munich (Chair Prof. Bruegge)

Munich, Germany

RESEARCH ASSOCIATE

Nov. 2010 - Jul. 2011 (9 Months)

- Survey evaluation and data analysis using R
- Extracted unstructured information of public APIs

Technical University Munich (Chair Prof. Carle)

Munich, Germany

RESEARCH ASSOCIATE

Sep. 2009 - Jul. 2010 (11 Months)

- Developed an autonomous configuration control loop enabling devices to interact with the Autonomous Control and Management Platform (ACMP). The ACMP is now integrated in the AutoHoNe project.

Volkswagen AG

Wolfsburg, Germany

SOFTWARE ENGINEER INTERN

Apr. 2009 - Jul. 2009 (4 Months)

- Developed a top-view camera simulation tool with MATLAB to support the research, architecture, development and configuration of an innovative driver assistance system.

Volkswagen Mexico

Puebla, Mexico

SOFTWARE ENGINEER INTERN

Mar. 2008 - Jul. 2008

- Gained insight into new technologies and opportunities to drive innovation by constantly identifying emerging technologies which may be utilized by Volkswagen company.
- Articulated opportunities/concepts to the company's knowledge management platform.

Siemens AG

SOFTWARE ENGINEER INTERN

Munich, Germany

Apr. 2007 - Sep. 2007 (6 Months)

- Developed and documented customer requirements for SharePoint tools and applications.
- Designed and implemented a new portal architecture for the Siemens Business Services (SBS) department.
- Developed and integrated new portal instances for different stakeholders.

Education

Technical University Munich, Ludwig-Maximillian University, Augsburg University

Munich, Germany

M.Sc. SOFTWARE ENGINEERING WITH HONORS — GRADE 95%

Mar. 2013

- Formal methods, Specification and verification of reactive systems, Database management systems, Embedded systems, Distributed systems, Human-computer interaction, Testing

Universidad de las Americas, Puebla, A.C.

Puebla, Mexico

B.Sc. COMPUTER SYSTEMS ENGINEERING — GRADE 98%

May 2010

Publications

- 2014** E.T. Solovey, M. Zec, **E. Garcia Perez**, B. Reimer, B. Mehler. Classifying Driver Workload Using Physiological and Driving Performance Data: Two Field Studies. *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems CHI '14*, ACM Press (2014).
- 2013** Reimer, B., Mehler, B., McAnulty, H., Munger, D., Mehler, A., **Garcia Perez, E.A.**, Manhardt, T. & Coughlin, J.F. (2013). A Preliminary Assessment of Perceived and Objectively Scaled Workload of a Voice-Based Driver Interface. *Proceedings of the 7th International Driving Symposium on Human Factors in Driver Assessment, Training, and Vehicle Design*. Bolton Landing, NY. pp. 537-543

Skills

Programming Java, Python, SQL, C#, Objective-C, Scala, Node.JS, LaTeX, Matlab, Octave
Web Django with Python, HTML5, OpenUI5
Languages Spanish (Native), German, English

Leadership Activities

2011 **Co-founder**, tvoicer - voices to the people

Germany

Honors & Awards

2014 **Best Paper Award Honorable Mention [Awarded to top 5%]**, SIGCHI Technical Committee
2010 **Scholarship for Master Degree**, CONACYT-DAAD
2010 **Magna Cum Laude**, Fundacion Universidad de las Americas Puebla

USA

Germany

Mexico