phd.smarquez@gmail.com

Salomon Marquez

Technical writer, Data enthusiast, and Researcher

LinkedIn | GitHub
Scholar | Portfolio

Professional Experience

Senior Technical Writer — **Wizeline, Mexico** — **Oct 2020 – Present**

- Produced a descriptive architecture guide that helped the development team to comprehend the overall technical vision of the client
- Created how-to guides that helped developers to connect to Aurora MySQL databases, monitor resources using Grafana, manage parameter stores with Terraform, deploy applications using Octopus, and query data using AWS Athena
- Implemented a docs-as-code approach to deliver client's technical documentation in a static site powered by Hugo and hosted in GitLab Pages

Technical Writer — **Wizeline, Mexico** — **Oct 2019 – Oct 2020**

- Acquired domain knowledge of clients' businesses to better support their processes. It included creating glossaries, policies, and user guides
- Created sequence diagrams and API documentation that helped developers to understand the flow of transactions for payment processors including Stripe, BlueSnap, and Apple Pay
- Speaker of the TW Academy 2020 of the session How to Write Software Architectures

Associate Researcher — **Center of Research in Optics (CIO), Mexico** — **Jun 2017 – Jun 2019**

- Investigated lab-on-a-chip nanoplasmonic and microfluidic devices for biosensing applications
- Mentored undergraduate students
- Published three scientific papers in peer-reviewed journals

PhD Student — **ICN2 – NanoBiosensors and Bioanalytical Applications Group, Barcelona Spain** — **Sept 2011 – Jul 2016**

- Designed, fabricated, and validated a mass sensing platform based on arrays of hollowed micromechanical sensors
- Modeled fluid-structure interaction problems for determining the fracture stress of thin films, and for evaluating 3D fluidic schemes
- Published five scientific papers in peer-reviewed journals

Professor — **DICIS - University of Guanajuato, Salamanca Mexico** — **Jan 2011 – Aug 2011**

- Taught the following courses: Linear Algebra, Calculus III, Physics II, and Complex Variables

Education

- **Udacity**
  Data Engineering Program (2020-2021)
- **Catalan Institute of Nanoscience and Nanotechnology, Autonomous University of Barcelona, Spain**
  Ph.D. in Electronics Engineering (2011-2016)
- **Center for Research and Advanced Studies of the National Polytechnic Institute (CINVESTAV-IPN), Mexico**
  M.S. in Electrical Engineering (2008-2010)
  Courses: Human Anatomy, Physiology, Physical Chemistry, Medical Instrumentation, Electrical Security
- **University of Guanajuato, Mexico**
  B.S. in Communications and Electronics Engineering (2002-2008)
- **West Virginia University, Morgantown, WV**
  Courses: Digital Image Processing, Antennas, Information Theory, Neuromorphic Analog VLSI (Spring 2007)

Skills

Technical

- Amazon Web Services
- Google Cloud Platform
- APIs
- GitHub
- Python
- MySQL

Soft

- Leadership
- Presentation Skills
- Proofreading
- English
- Spanish

Certifications

AWS Cloud Practitioner Certification **(2021)**
Data Engineering Nanodegree **(2021)**
GCP Associate Cloud Engineer **(2022)**