Sergio Morales Esquivel
Born April 14, 1989

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LANGUAGE SKILLS

Spanish (native)
English (advanced, fluent)

INTERESTS

Tech: Data Science, Machine Learning, Software Architecture, Free Software

EDUCATION

Instituto Tecnológico de Costa Rica ITCR, Cartago, Costa Rica

M.Sc., Computer Science   **July 2011 to August 2016**
M.Sc. Thesis on Rule Induction model effectiveness on NASA's Kepler Project data.

B.Sc., Computer Engineering   **February 2007 to February 2011**

TECHNICAL KNOWLEDGE

Programming: C/C++, Haskell, Java, Lua, .NET, Perl, Python, R, UNIX Bash & others.

SDKs & OSs: Android, iOS, Arduino, GNU/Linux, Microsoft Windows, OS X.

Databases: Relational (SQL-like) and non-relational engines.

Others: Python/R packages for data ingestion, wrangling, visualization and modeling, AWS (Lambda, API Gateway, Cognito, Dynamo, others), LaTeX, Git, project tracking software & other common productivity packages.

PROFESSIONAL EXPERIENCE

Growth Acceleration Partners San José, Costa Rica

Global Technology Strategist - Analytics & Data   **May 2018 to Present**
- Team leadership for Analytics projects focused on both Data Engineering and Data Science tasks including model generation, process optimization and general R&D.
- Leadership of Analytics Center of Excellence initiatives including recruitment, project on-boarding, internal documentation maintenance and outreach events.
- Active participation in company product strategy planning and implementation in collaboration with the technology organization.
- Data pipeline and infrastructure design, implementation and optimization.
- Assistance with sales and client outreach efforts.

Senior Software Engineer   **December 2013 to May 2018**
- Design and development of complex Android, Android Wear and iOS applications.
- Design and development of backend solutions for multi-tiered micro-service architectures.
- Component design, development and integration for multimedia apps with audio streaming, augmented reality, geofencing and other specialized domain-specific capabilities.
- Collaboration in new technology research and development initiatives.

Universidad Cenfotec, San José, Costa Rica

Professor / Lecturer   **August 2017 to Present**
- Basic-Intermediate-Advanced Mobile Software Development courses.
- In-person and virtual Data Science modules for postgraduate Analytics program.
- Assistance in coursework and syllabus design for Data Analytics programs.

Instituto Tecnológico de Costa Rica ITCR, San José, Costa Rica

Professor / Lecturer, Computer Science Faculty   **2013**
- Lectured for two entry-level university courses for the Computer Science B.Sc. program.

Cecropia Solutions San José, Costa Rica

Embedded Systems and Mobile Software Engineer **January 2013 to December 2013**
- Software design and development of multimedia Android and iOS applications.
- Development of one of the first implementations of Opus audio codec on mobile devices.
- Software design and development on embedded Linux Devices.
- On-site development and testing around the US.

RidgeRun Embedded Solutions Cartago, Costa Rica

Embedded Systems and Mobile Software Engineer **April 2011 to December 2012**
- Software development of multiple projects on mobile embedded Linux platforms.
- Active participation in project meetings with clients around the world.

Intelligent Data Analysis Research Lab
Czech Technical University CVUT, Prague, Czech Republic

Internship at IDA Research Lab **September 2010 to February 2011**
- Software development in a bioinformatics and machine learning research project.
- Regular participation in progress meetings with other researchers.

Instituto Tecnológico de Costa Rica ITCR, Cartago, Costa Rica

Iberoamerican Mathematics Olympics Resource **February 2010 to July 2010**
Management Application
- Design and development of the event's registration and logistics webpage.

Electronic Vote Project **August 2009 to January 2010**
Tribunal Supremo de Elecciones
- Design and development of prototype voter registration application.

PUBLICATIONS   S. Morales and C. Jenkins. *Free Source Alternatives and Technology Demonstration.*
II Congreso de Computación para el Desarrollo, 2009, ITCR, San Carlos, Costa Rica.

A. Szabooba, O. Kuzelka, F. Zelezny, S. Morales and J. Tolar.
Prediction of DNA-binding Propensity of Proteins by the Ball-Histogram Method.
The 7th International Symposium on Bioinformatics Research and Applications, 2011.

(SOME)
ADDITIONAL
ACTIVITIES

Independent Development & Writings

fireblend.com **July 2011-Present**
- Personal writings on technology and industry trends, talks and workshops.

Ludum Dare Competition Entries and Other Games **April 2012 to Present**
- Personal entries for the solo game development competitions and other projects.

#triviaCR **December 2013**
- Interactive trivia application developed for University of Costa Rica's *Ojo Al Voto* project.

ITCR Free Software Community CSL-TEC, Cartago, Costa Rica

Free Software introductory courses **February 2010 to 2012**
- Gave basic FS related courses to first-level students at ITCR's computer faculty.

Panama Mini Debian Conference 2010 **March 2010**
- Attended "Minidebconf" in Panama, sponsored by the Debian Project.

Red Costarricense de Software Libre
Costa Rican Free Software Community RCSL, Costa Rica

II Encuentro Centroamericano de Software Libre **July 2010**

II Congreso de Computación para el Desarrollo **July 2009**