Erick Garcia

SOFTWARE DEVELOPER | UX DESIGNER

A passionate software developer with 3+ years of experience, I hope to work with a company that aligns with my values and interests as well as have a challenging and rewarding programming position. My main interests are UX (User design), Web Development, writing high quality easy to maintain code. My strongest asset by far is that I am an agile learner. If you want to learn more about the rest of my projects and my hobbies visit my website!

✉ me@erick-garcia.com

📍 Tempe, AZ, United States

in linkedin.com/in/garciaErickCs

📱 +1 915 5386953

🌐 erick-garcia.com

○ github.com/garciaErick

WORK EXPERIENCE

Full-stack Angular Developer
Applied Materials

06/2019 – Present   *Phoenix, AZ*
Worked with a remote team in the Semiconductor industry on a ETL and data analysis tool. Technologies used are Angular, Java, and virtualization.

Achievements/Tasks

- Migrated our data analysis legacy tool to Angular 8 employing latest industry standards which highly improved the quality of the code base
- Created infrastructure for unit testing and code review and enforced them on the front-end team through positive reinforcement and mentorship

Contact: Alex Pai – alex_pai@amat.com

Service Information Developer II
DXC Technology

03/2018 – 05/2019   *El Paso, TX*
Develop, maintain and test healthcare portals (MMIS Applications). Understand the business and technical aspect of the healthcare industry.

Achievements/Tasks

- Fixed exploits and optimized most of healthcare portals security in the US
- Trained the team on the most current industry C# features

Contact: Oswaldo Perez – oswaldo.perez@dxc.com

Product Platform V&V Intern
Intel Corporation

2017 – 2018   *Hillsboro, OR*
Verification and validation on processors with the following technologies: WinForms UX Design, C# WCF protocols, unit testing and mock testing.

Achievements/Tasks

- Implement a continuous integration system supporting the team's host and client structure using virtualization
- Develop a bootstrap installer to deploy the V&V tool to developers and to the engineers in the fabrics

Contact: Tristan Hanson – tristan.hanson@intel.com

Graduate Research Assistant
The University of Texas at El Paso ⬈

01/2014 – 03/2018   *El Paso, TX*
Performing research in the fields of Semantic Web, Data Mining, and Ontologies.

Achievements/Tasks

- Developed the full DBCMS infrastructure, back end, and front end of the group Website using MVC architecture ⬈
- Contributor in an automatic creation/extraction of expressive ontologies from (normalized) relational databases ⬈

Contact: Doctor Natalia Villanueva – nvillanuevarosales@utep.edu

May 15, 2020

EDUCATION

Master of Science – Software Engineering
The University of Texas at El Paso

2017 – 2018   *3.44*
Cyber secure systems specialization

- The practicum project consisted of a plugin architecture add on for IDA a disassembler and debugger, that enhanced the functionality and it is currently used by cyber security development teams in Fort Bliss

Bachelor of Science – Computer Science
The University of Texas at El Paso

2014 – 2016   *3.33*
Minor

- Mathematics

TECHNICAL SKILLS

Programming Languages
Java, C#, PHP, Python, Typescript, MySQL, SPARQL, Oracle, MongoDB, OWL (Ontology)

Methodologies
SOLID (Clean code), Agile Development & SCRUM, User-first design, Test-driven development

Software Stacks
MEAN (MongoDB, Express.js, Angular, Node.js), LAMP (Linux, Apache, MySQL, PHP/Python)

Tools & Environments
Visual Studio, IntelliJ, Command line, Hyper-V and VMWare, Docker & Kubernetes, GIT & TFS, Vim > Emacs

Patterns
MVC, MVVM, Singleton, Factory

LANGUAGES

English   ● ● ● ●

Spanish   ● ● ● ●

日本語 Japanese ● ● ● ○

WORK EXPERIENCE

High Parallel Computing Research Intern
Stanford University

05/2015 – 08/2015   *Stanford, CA*
Computer vision and parallel computing research

Achievements/Tasks

- Developed a methodology of embedding a real time computer vision payload on a Solo 3DR smart drone ⬀

Contact: Doctor Patric Hanrahan

Tutor/Mentor for Students with Disabilities
El Paso Community College

2012 – 2014   *El Paso, Texas*
Working in private sessions with students with disabilities, enabling them to get the attention and support they need to obtain their degree additionally this includes acting as their mentor for the semester.

PUBLICATIONS

Research poster
Data Integration for Digital GeoTimescale Mapping ⬀

Erick Garcia
Dr. Natalia Villanueva

2016
Cyber-ShARE Center of Excellence

Research Paper
Semantic-annotating of Research Lab Activities for Data Sharing ⬀

Erick Garcia
Dr. Natalia Villanueva

2015
Cyber-ShARE Center of Excellence

Research Poster
Semantic-based data integration and exchange for a research group ⬀

Erick Garcia
Dr. Natalia Villanueva

2015
Cyber-ShARE Center of Excellence

CONFERENCES & COURSES

GEM Annual Conference Presenter (2017)
The national GEM consortium

- Represented Intel Corporation in the conference and was sponsored to attend the GEM annual conference at NYC

HEENAC conference presenter at Anaheim, CA (2016)
Hispanic Engineer National Achievement Awards Conference

- Presented the paper Data Integration for Digital Geofield Mapping which was developed in my time as a graduate research assistant

CAHSI conference presenter at Puerto Rico (2014)
Computing Alliance of Hispanic-Serving Institutions

- Presented the paper Semantic-annotating of Research Lab Activities for Data Sharing which was developed in my time as an undergraduate research assistant at UTEP

PERSONAL PROJECTS

Dotfiles ⬀
- These are my dotfiles to configure my linux development cli environment, using i3 a tiling window manager, Windows WSL integration, last but not least a carefully crafted Vim & Emacs configuration

Golang Client/Server Chatroom ⬀
- This is a sample multi-client/server done in Golang. Has simple user logins and username validation.

JSON recursive Tcp-proxy ⬀
- A Python TCP protocol demo in which the client sends the server a JSON encoded graph. What is interesting is that this JSON is created recursively and it explains the differences when you take in account passing the objects by reference vs not taking in account any memory references at all.

TCP stammering proxy demo ⬀
- TCP file transfer protocol demo which features a client-server architecture and demonstrates TCP reliability for transferring packets even if there is an unreliable (stammering) proxy.

Battleship Haskell ⬀
- Classic battleship game done in the fuctional language haskell

My Static Website and Blog
- My personal website erick-garcia.com and blog notes.erick-garcia.com hosted on a Digital Ocean droplet is statically generated using Jekyll and my blog is rendered using Jekyll-org since I prefer Emacs' org-mode over markdown.

HONOR AWARDS

ParkHub challenge winner (2019) ⬀
HackDFW

- Time Map is a traffic/parking solution that uses the past Uber movement dataset, crowd-sourced real-time information, and parses information from future events using natural language processing.

1st place winner (2017) ⬀
RESET Hackathon

- Industry 4.0 and the Internet of Things is the main topic of this hackathon, projects must be developed based on technologies of Mobile Applications, Sensors, Bluetooth, AR, VR, etc. Won 1st place with a cyclic inventory optimization app using computer vision

Fellowship Awardee (2016) ⬀
GEM

- GEM is a network of leading corporations, government laboratories, top universities, and top research institutions that enables qualified students from underrepresented communities to pursue graduate education in applied science and engineering, Fully payed the institution fees for the Master's Degree in Software Engineering.

Valedictorian award for the academic generation (2012 – 2014)
Instituto Mexico highschool

- Graduated with honors and top of the 2014 generation

VOLUNTEER EXPERIENCE

Contributor in low resource home construction
Chopeke Collective ⬀

2015   *Ciudad Juarez, Chihuahua*
Chopeke Collective a project for building low resource thermic homes for needed Tarahumara homeless families in Ciudad Juarez, Mexico; under the supervision of Architect Omar Rios.