Hector Daniel Andrade Groppe

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Professional Experience

Mobica | Mountain View, California, United States
Software Engineer (vendor) at Google   June 2016 – present

- Maintain backend, frontend, and application servers in operational state. This includes the design and implementation of migration plans to modern technology stacks, addressing issues as detected by monitoring tools, and fixing bugs as reported by users or other teams. During execution of the plans, validate the new behavior alongside the QA team and gradually roll out the changes to production. The primary language used in the server code is Java.
- Develop features for Android applications that serve as companion for wearable devices including UX/UI updates and improvements, Bluetooth connectivity, and compatibility upgrades for newer versions of Android. The primary language used for this task is Java.
- Ensure that the release and testing infrastructure for the companion and server applications remain operational and in a healthy state. This requires use of several tools such as version control, shell scripting, and proprietary tools and environments to test, build, and deploy.
- Perform development, testing, bug-fixing, and validation tasks for user and system applications running in an Android-based wearable device. Languages used: Java and C++.

Mobica | Guadalajara, Mexico
Software Engineer   January 2016 – June 2016

- Extend AOSP conformance tests to include tests for OpenGL ES 3.2. These tests where written in C++.

Junior Software Engineer   February 2015 – December 2015

- Port code written in C++ from the AOSP OpenGL ES 3.0 tests to JavaScript to build the conformance test suite for WebGL2.
- Develop Python scripts to interact with Android devices through ADB using third-party tools such as Visual Studio.

IBM | El Salto, Mexico
IT Specialist   April 2012 – January 2015
Top Personnel | El Salto, Mexico
IT Specialist (contractor) at IBM   March 2011 – April 2012

- Manage and troubleshoot UNIX applications running on top of z/OS. This includes updating cron tables, managing the service accounts used by these applications, and the application configurations through a remote shell over SSH.
- Execute code promotion tasks to the test and production environments during system-wide upgrades and work with the extended team to ensure that all data flows handled by different components are reliable and stable.
- Provide timely technical and in-depth support for applications and interfaces that handle data flow to financial systems.
- Perform user acceptance testing and integration testing for the suite of applications used by and on behalf of internal customers.
- Provide the internal customers with support during corporate and external audits; collect and summarize the process and data for each system as requested by the audit team.
- Plan and execute application deployments and sunsets in an effort to reduce application redundancy and work with system owners to provide the finance team with the usage statistics to recover costs in the order of thousands of dollars per quarter.
- Organize tech talks, conferences and technical exchanges, and other activities as member of the Mexico Technical Vitality Council.

Professional Certifications
Professional Data Engineer - Google Cloud Platform, December 2018 - present

Professional Organizations
Association for Computing Machinery

Skills
Primary Programming Languages: Java
Additional Programming Languages: Python, C++, and JavaScript
Operating Systems: Linux/Unix systems, Mac OS X
Source Control: Mercurial, Git, Subversion
Languages: Spanish (native), English (technical), German (basic)
Other technologies: Protocol Buffers, Bazel build system

Education
Master of Science - Computer Science   August 2011 - December 2013
Tecnologico de Monterrey (ITESM), Zapopan, Mexico

Bachelor of Science - Civil Engineering   August 2005 - May 2010
ITESO, Tlaquepaque, Mexico