

Gilberto L. Pérez

Software Engineer

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Programming Languages —

| C/C++ | 2.20 |
|-----------------------------------|--------------|
| SQL | 3.20 |
| Java | |
| Perl | |
| Python | 9.20 2.20 |
| Operating Systems ———— Windows | 2.20 |
| MacOS | |
| Linux | 2.20 |
| Software and Tools ———— Git | |
| GNU Debugger | Pro |
| GNU Autotools | 201 |
| GCC | |
| Eclipse IDE | 201 |
| Jenkins | |

Education

| 2014-2016 | Master of Science Computer Science | University of California, Irvine |
|-----------|---|--|
| 2006-2012 | Bachelor of Science Majoring in Computer Sci | California State Polytechnic University, Pomona ence with a minor in Mathematics |

Experience

05.2017-Present Senior Software Engineer Investment Technology Group/Virtu Financial

- Implemented symbol and currency conversion logic in C++ for a performance sensitive order processing and routing system. Improved performance by 15% and maintainability while expanding functionality.
- Developed a load balancing record publishing utility in C++.
- Migrated large code base from Clearcase to Git and designed a new development procedure for it.
- Wrote SQL queries over complex client configurations, orders and reports tables.
- Expanded functionality of Perl scripts used by admins to monitor production systems.
- Modernized and expanded capabilities of NCurses based admin GUI tool.
- Deployed automation server (Jenkins) to facilitate continuous integration and continuous delivery.
- 3.2015-7.2017 Graduate Student Researcher University

University of California, Irvine

- Developed a parallel finite element model alongside Jet Propulsion Laboratory (JPL) scientists in C++/Python/MATLAB.
- Configured and administrated a continuous integration testing suite with a web dashboard (Jenkins).
- Deployed Amazon cloud instances as a computational servers for NASA science outreach.

9.2016-3.2017

2.2014-3.2015

Lecturer

California State Polytechnic University, Pomona

- Prepared lesson plans, lecture slides, homework assignments and examinations for various courses.
- Hired and trained graders to help with course work.
- Developed an automated examination generator as well as an automated project grader.

2.2012-9.2014 Intern

Jet Propulsion Laboratory

- Ported complex finite element model ISSM to the Android platform (C++, Java).
- Mentored new interns.
- Maintained portability of software to major platforms (MacOS, Windows, Linux).

ceived performance based extra credit for graduate AI course.

Projects

| 19 | Lineup Optimizer Absorbing Markov Process baseball run production model timize lineup construction. Implemented in Python using N | • |
|----|--|---|
| 17 | Sudoku Solver Constraint propagation with backtracking Sudoku S Generic base Sudoku implementation (eg 9×9 , 16×16) | |