Janvier Wijaya

Summary

Software engineer with 10+ years of experience in designing and developing software applications from conception to completion. Strong analytical and problem-solving skills with proven track record in developing creative solutions to complex problems using different technologies.

Technical Skills

- **Languages**: C/C++, Java, Swift, Objective-C, PHP, Python, JavaScript, SQL, Unix shell scripting and IDL.
- **Frameworks | Libraries**: OpenGL, Qt, GTK+, iOS, Cocoa, JavaFX, Django, jQuery and SolarSoft IDL.
- **Tools**: Git, Subversion, Vim, Xcode, NetBeans and JavaFX Scene Builder.

Professional Experience

Software Engineer Nov 2008 – Present

Predictive Science Inc. – San Diego, CA

- Work with solar physicists in identifying and prioritizing features/products; creating short term and long term goals; and developing requirements and specifications.
- Create, maintain and prioritize product backlogs.
- Design, develop, deploy and maintain software applications:
  - CORHEL: Software suite for modeling the solar corona and inner heliosphere using various models.
  - SolarView, Visual and MeshView: Interactive 2D/3D visualization desktop applications for analyzing simulation results; and analyzing as well as designing mesh of simulation runs.
  - Several web applications for designing various simulation runs using various models; analyzing simulation results covering 40+ years interval; and comparing results with observation data from NASA STEREO (Solar TErrestrial RElations Observatory) and SDO (Solar Dynamics Observatory) missions.
- Maintain systems and infrastructure that include web and application servers, database and repositories.
- Provide technical leadership and mentoring to software engineer interns.

Software Engineer Jul 2013 – Aug 2016

World Fusion US, Inc. – San Diego, CA

- Worked with scientists in redesigning, developing and deploying Metagenome@Kin for Windows and macOS. Metagenome@Kin is a high throughput sequencing data analysis tool for the 16S rRNA, which allows user to classify and organize large amount of data, and perform statistical analyses/automatic clustering.

Systems Developer/Integrator Oct 2007 – Nov 2008

SAIC (Science Applications International Corporation) – San Diego, CA

- Designed and developed CORHEL and Visual whose initial prototypes were developed during the past internship.
- Designed and developed an initial version of MeshView, an interactive 2D visualization desktop application for analyzing as well as designing mesh of simulation runs.

Programmer Analyst Jan 2006 – Oct 2007

Jack Henry & Associates, Inc. – San Diego, CA

- Designed, developed and reviewed enhancements and high priority fixes for online ATM and shared branching software.
- Provided credit unions with custom programming to meet their specific needs in enabling, removing, modifying and creating an immense number of advanced custom features.
- Worked in conversion projects with credit unions, card services analysts and ATM network providers to bring credit union ATM and shared branching services online.

Science/Engineering Intern Nov 2004 – Oct 2007

SAIC (Science Applications International Corporation) – San Diego, CA

- Developed an initial prototype of CORHEL, a software suite for modeling the solar corona and inner heliosphere using various models.
- Developed an initial prototype of Visual, an interactive 3D visualization desktop application for analyzing simulation results.

Education

B.S. in Computer Science Dec 2005

University of California, San Diego – La Jolla, CA