RANDALL TOEPFER

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SUMMARY OF SKILLS

Senior developer with fifteen years of experience in C++, Java, Python, Ruby, and PHP.

EDUCATION

| **1999, 2003** | **Tulane University** | **New Orleans, LA** |

Bachelor of Science Engineering, Computer Engineering

- Graduated with cum laude distinction and department honors.
- Minored in Math and Electrical Engineering.

| **2008, 2010** | **Loyola University** | **New Orleans, LA** |

- Completed two years of law school.

WORK EXPERIENCE

| **August, 2005 – Present** | **ZydecoDigital.com** | **New Orleans, LA** |

Freelancer/Consultant

- Developed several applications using Google App Engine, Python, Django, Bootstrap, jQuery, and Underscore.js.
- Assisted two businesses developing software for air permit compliance and computing hazardous air emissions.
- Helped several businesses configure and use Salesforce.com platform.

| **Aug. 2003 – June 2008** | **System-Creations.com** | **New Orleans, LA** |

Nov. 2017 -- Current

Senior Computer Engineer

- Enhanced C++ and JavaScript in QT Quick and QML application used for system validation and testing of airplane cabin management system.
- Developed MPEG2 media ethernet streaming application and associated binary control protocol used in airplane in-flight entertainment system.
- Developed over twenty TCP/IP networking and RS-232/RS-485 modules in C++ / C on Windows, Linux and embedded platforms.
- Create and update documentation in accordance with company's ISO9001 quality program.

Dec., 2016 – July, 2017   **Scandy.co**   **New Orleans, LA**
Senior Software Engineer

- Developed ground plane detection in C++ for 3D scanning application using algorithm outlined in http://ieeexplore.ieee.org/document/7556009.
- Developed C++ TCP networking component for 3D scanning application using open-source "libuv".
- Developed C++ ORM component for 3D scanning application using open-source "hiberlite".
- Developed and configured open-source "buildbot" continuous integration for C++ builds.
- Updated functionality of Android 3D scanning application in C++ and Java.
- Refactor existing Scandy SDK and cmake to work with C++ 17, Qt5 framework, VTK-Qt module, and Clang compiler.
- Create unit and smoke tests using Google Test framework.

Nov., 2015 – Sept., 2016   **Zlien.com**   **New Orleans, LA**
Senior Software Engineer

- Worked on support tasks for application used in legal aspects of accounts payable in the construction industry.
- Integrated application with QuickBooks online SDK.
- Application built in PHP with heavy use of Smarty templates, jQuery, and Backbone.js.

August, 2009 – May, 2010   **Geocent**   **Metairie, LA**
Consultant

- Developed prototype 3D digital asset management application in Java EE Spring and C++.

June, 2008 – Mar, 2009   **Ion Geophysical**   **Jefferson, LA**
Assistant Product Manager

PROJECTS

Greenhouse Gas Data Reporting
Owner/Consultant, Zydeco Digital

- Developed PHP/MySQL database application that computed greenhouse gas emissions at nearly 20,000 oil and gas wells and then created XML reports of result data as specified by the Federal Government's Environmental Protection Agency.

Digital Media Encryption Application and Video On Demand Server
Software Engineer, System Creations

- Developed C++ software application that encoded MPEG video files obtained from a Los Angeles based distribution agency. Encrypted files were delivered to global 500 corporation for use on private aircraft worldwide. Software application utilized the Blowfish encryption algorithm.
- Developed C++ video on demand server that trans-coded digital media files on a military grade aircraft server and streamed such files to Ethernet based clients on an aircraft. Application ran on Red Hat Linux and utilized open-source software including VideoLAN.