

LANGUAGES AND TECHNOLOGIES

- C++, C#, ASP.NET, Python, SQL, HTML, CSS, JavaScript, XML
- Oracle, SQLite, Django, Git, Perforce, Google Test, NUnit, Visual Studio, Eclipse, Momentics, JIRA

PROFESSIONAL EXPERIENCE

Software Developer

September 2016 - Present

Susquehanna International Group, LLP – Bala Cynwyd, PA

- Maintained an ASP.NET C# web-application for 100,000+ accounts and parties used within the firm, in conjunction with an Oracle database. Improved latency and reliability in all layers of the stack.
- Created a new WCF REST service to handle order routing to an exchange. Service was capable of reading and writing to multiple tables in a single transaction, while handling several edge cases.
- Constructed a separate data interface for abnormal inquiries, using QlikView. Allowed end-users to quickly pull information needed for reporting, with data closely resembling real-time.
- Added an automated unit testing system using the NUnit framework. Tested server-side logic, data I/O, as well as data integrity.

Software Engineer

August 2014 – September 2016

THINK Surgical, Incorporated - Fremont, CA

- Designed, developed, tested, and released production software for a robotic surgical device utilizing C++ and XML on a QNX platform. Created new functionality; improved pre-existing modules.
- Incorporated a SQLite database and a wrapper server process for interfacing with database APIs. Created a modularized client singleton class for inter-process communication to the database server.
- Introduced and incorporated the C++ unit test framework GoogleTest on a QNX platform. Added heavy unit testing in several areas, including XML parsing, database I/O, and inter-process communication.
- Created custom tailored software for the clinical and marketing teams to perform quick and easy demonstrations at several major conferences.

Software Test Engineer

January 2014 – July 2014

THINK Surgical, Incorporated - Fremont, CA

- Designed and executed risk-based software integration level tests covering Diagnostics and Calibration functionality of a robotic surgical assistant.
- Trained company personnel on proper use for new software features of a robotic surgical assistant, including developers, electrical engineers, and clinical trainers.

Software Test Engineer Intern

May 2013 – August 2013

THINK Surgical, Incorporated - Fremont, CA

- Implemented and managed an email notification system for an automated testing system integrated with commercial static analysis tools, and made front-end changes for usability.
- Established specifications and validation procedures for off-the-shelf software.

EDUCATION

Bachelor of Science, Computer Engineering

December 2013

Minor, Computer Science

University of the Pacific - Stockton, CA