Charles Mita

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PROFILE

- Result focused and conscientious Software Developer with nearly 5 years experience in the Scientific Research sector, and experience within the online Credit sector.

- Current role focuses on the data acquisition software for X-ray beamlines at the UK's Synchrotron Light Source, utilising modern techniques (Agile, OOP, TDD) to develop and maintain Java and Python software.

- Primary responsibility is the development of the data acquisition system for a fully automated X-ray beamline, requiring the coordination of sample loading robots, sample motor stages, optical cameras, continuous trajectory controllers, and high frequency X-ray detectors to perform automatic data collections with high throughput.

- Looking to further develop technical skills and knowledge, producing high-quality software to solve exciting problems in a high-tech environment that encourages teamwork and professional growth.

EXPERIENCE

- **Diamond Light Source Ltd.**
  Software Developer in Data Acquisition   *Jan. 2014 - Present*
    - Development and maintenance of the Data Acquisition framework (GDA), an open source Java project.
    - Design and development of the data acquisition system for an automated X-ray beamline for Macromolecular X-ray crystallography (VMXi).
    - Design and development of a Python project (scanpointgenerator) to efficiently describe and produce positions for n-dimensional scans for X-ray data collections.
    - Design and development of a C plugin for a data analysis tool to allow efficient processing of datasets collected from the latest high speed X-ray detectors (1-100 GB datasets).
    - Support for data acquisition on multiple X-ray beamlines; including integration and control of devices (motors, detectors, spectrum analysers, and other hardware) into the data acquisition framework.

- **Credit Reporting Agency Ltd.**
  Software/Web Developer   *July 2012 - Dec. 2013*
    - Maintenance of multiple customer facing websites using VB.NET.
    - Rewriting of the website aimed at Australian consumers to match the services offered to UK consumers.

EDUCATION

- **University of Warwick**
  B.Sc Maths and Physics 2:1   *Oct. 2009 - July 2012*

- **Truro College**
  A levels in Maths, Further Maths, Physics, Chemistry (AAAA)   *Sept. 2007 - July 2009*

SKILLS

Technologies:
Experience with Java, Python, C, Git, ASP.NET, VB.NET, HDF5.
Working knowledge of C++, C#, SVN, GDB, Javascript.

Operating Systems:
Windows, Linux