

Akio Sone

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PROFESSIONAL EXPERIENCE

January 2010 - Present

Applications Analyst

HW Odum Institute for Research in Social Science

University of North Carolina at Chapel Hill

July 2017- Present

(1) impact (Infrastructure For Privacy Assured Computations) project:

Development of Trusted Remote Storage Agent

(<https://github.com/OdumInstitute/trsa-web>)

August 2013 - 2017

(1) DataNet Federation Consortium: Developed storage connectors between Dataverse(DVN) and iRODS, and other related Dataverse tools

<https://github.com/akio-sone/jargon-modeshape>

<https://github.com/DFC-Incubator/dataverse-publisher>

January 2010 - August 2013

(1) Systematic Archival Facsimile Engine (SAFE) project:

Developed a Java-based LOCKSS Cache Manager and its related source-code management

(<https://sourceforge.net/projects/safearchive/>)

August 2009 - November 2009

Contract Software Engineer for Dryad Project at National Evolutionary Synthesis Center (Duke University)

(1) Developed the ingest (journal-metadata submitted by e-mail) component of the Dryad Submission system.

(2) Planned/designed the curation component of the Dryad system.

(3) Fixed the high-priority bugs of the Dryad Submission system.

January 2009 - June 30, 2009

Contract Software Engineer for the Dataverse Network Project(see below) at the UNC at Chapel Hill, Odum Inst. for Research in Social Science

(1) Re-designed/re-write the ingest component in Java

April 2000 - January 2009

Software Engineer (2008-2003: Research Associate ; 2003-2000: Post-

doctoral Research Fellow)

Dataverse Network Project, Harvard University, Institute for
Quantitative Social Science, Cambridge, MA, USA (<http://thedata.org/>)

(1) Designed/developed web-based (pre-Ajax, Ajax-based, Icefaces-based)
GUIs for data-subsetting and statistical analysis requests to the

Dataverse

(2) Designed/developed the R-based data-service component of the
Dataverse (web application)

(3) Designed/developed the perl-based ingest modules that extract
metadata from: (a) SPSS-SAV and -POR format files and -SPS syntax files
and (b) SATA DTA data files

(4) re-write the perl-based data-service component of the Dataverse in
Java within JEE5 framework

January 2008 - 2009

Research collaborator on a political-science grant project (Politico-
economic analysis of Post-WWII Japanese Parliamentary Proceedings) by
three faculty members at Yale Univ., UC-San Diego, and ANU [Australia]

(1) designed/developed the extract, transform and load (ETL) stages of
the project (its text-mining stage to be included)

May 1994 - August 1999

Assistant Professor

Urban and Regional Planning Group, Institute of Policy and Planning
Sciences, University of Tsukuba, Japan

1997

Consultant for Japan Management Association (JMA), Tokyo, Japan

(1) Served as an advisory board member for JMA's development of a
municipal performance measurement system

January 1994 - April 1994

Research Consultant for Mitsubishi Research Institute, Tokyo, Japan

(1) Analyzed regional/local economic data for drafting a municipality's
strategic plan

(2) Forecast potential cable-TV subscribers in a locality.

1992 -1993

Research Assistant to Professor Daniel A. Griffith,
Dept. of Geography, Syracuse University, Syracuse, New York

1) Coded programs in FORTRAN for Professor Griffith's NSF project on
spatial statistics.

1986 - 1989

Research Assistant to Professor Hidehiko Tanimura, Inst. of Socioeconomic Planning, Univ. of Tsukuba, Tsukuba, Japan

1) Analyzed socio-economic data for his grant projects in the regional planning of public library services and health care services.

1981 - 1985

Cataloging Librarian, National Science Museum, Ministry of Education, Tokyo, Japan

1) Led a bibliographic database project and served as the chief editor of National Science Museum Library Catalog, 1984 ed. 2 vols.

Tokyo: The Museum, 1984-85.

2) Developed a PC-based software package in BASIC for the Library's publication exchange program.

DIGITAL PROFICIENCY

Languages

Proficient {perl, Java, JavaScript, FORTRAN, BASIC:, HTML, XML, XSLT, CSS, Bash}, Basic {C, Python, C++, SQL}

Web-service Framework, application servers, and related technologies

Intermediate {JEE [Java Servlet, JSTL, JSF, JPA, JMS], PrimeFaces}, Basic {Glassfish, Payara, Tomcat}

Database

Basic {PostgreSQL, MySQL, H2}

IDEs and other Coding Utilities

Intermediate {Netbeans, Eclipse, git/github}, Basic {Subversion, CVS, maven 2, ANT, JMeter, Junit, make, ANTLR, Lucene, Hudson}

Software engineering skills

Intermediate {design patterns: Java and perl}, Basic {Unified Modeling Language (UML)}

Internationalization/Localization

Basic {Unicode programming (Japanese, Chinese)}

Operating systems

Microsoft Windows, Unix, Linux, Mac OS X

Statistical/econometric programs

Proficient {R, SAS, SPSS}, Basic {STATA}

Geographic information systems (GIS)

Basic {MapInfo, ArcView}

AWARD

2007 Harvard Heroes: Team Achievement Awards(Dataverse Network Project)

EDUCATION

1993 Ph.D.(Geography), Syracuse University, Syracuse, NY, USA
1987 - 1989 Univ. of Tsukuba, Doctoral Program in Urban and Regional
Planning, Tsukuba, Japan (1988: Doctoral Candidate)
1987 Master of Economics, the Univ. of Tsukuba, Tsukuba, Japan
1981 Diploma in Library Science (Univ. of Tsukuba, Japan
1980 Bachelor of Agricultural Science, Ibaraki University
Dept of Animal Husbandry (Animal Hygiene),Ibaraki, Japan

PAST WORKS

CODING PROJECTS

A. Dryad Project

Maven2-based Java package:

Most of classes/sub-class under the following parent package:

<http://code.google.com/p/dryad/source/browse/trunk/journal-submit>

B. Dataverse Network Project

Java Packages:

(1)Statistical-Data Service-related

Most of classes/sub-classes under the following package

(excluding JMS-related ones)

<http://dvn.svn.sourceforge.net/viewvc/dvn/src/DVN-EJB/src/java/edu/harvard/iq/dvn/ingest/dsb>

(2)Ingest-related

All classes and sub-classes under the following packages

<http://dvn.svn.sourceforge.net/viewvc/dvn/src/DVN-EJB/src/java/edu/harvard/iq/dvn/ingest/org>

<http://dvn.svn.sourceforge.net/viewvc/dvn/src/DVN-EJB/src/java/edu/harvard/iq/dvn/ingest/statdataio>

Perl packages

Statistical Data Service/Ingest related

<http://dvn.svn.sourceforge.net/viewvc/dvn/src/DSB/perl/lib/VDC/DSB/>

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