Lipyeow Lim

Résumé

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Education

2004	Ph.D., Computer Science, Duke University, NC, U.S.A.
2000	M.Sc., Information Systems and Computer Science, National University of Singapore, Singapore.
1999	B.Sc., Information Systems and Computer Science, National University of Singapore, Singapore.

Employment

2021–Present	*Principal Software Engineer* FireEye Inc.
2019–2020	*Senior Staff Software Engineer* FireEye Inc.
2014–Present	*Associate Professor of Information and Computer Science* (On extended leave of absence) University of Hawaiʻi at Mānoa, HI, U.S.A.
2009–2014	*Assistant Professor of Information and Computer Science* University of Hawaiʻi at Mānoa, HI, U.S.A.
2004–2009	*Research Staff Member. Business Informatics Department* IBM T. J. Watson NY, U.S.A.

Areas of Expertise

- Information Management: data model, data integration, database architecture, data warehousing, performance optimization, semantic technologies, parallel and distributed databases

- Cybersecurity applications: integrating cybersecurity data sources, alert workflow, threat hunting.

- Data science: data mining, deep learning.

Selected Projects

Managed Threat Hunting Service (2020-present)
> Product owner, architect, and project manager. Coordinated multiple teams to deliver beta and GA version.

Third Party EDR Business Initiative (2020-present)
> Product owner, architect, project manager. Prototyped initial POC for supporting Microsoft Defender for Endpoint EDR and coordinated multiple teams to productionize and deliver beta version.

Network Hunting Platform (2020-present)
> Product Owner, architect, project manager. Prototyped PoC version. Coordinated multiple teams to productionize GA version.

Voltron SOC Platform (2019-2020)
> Software Engineer. Redesigned data model in order to address query performance goals.

X15 Distributed Database System (2019-2020)
Software Engineer. Delivered various enhancements and bug fixes.

Social Insurance MIS for Guangdong Province, China. (2012–2018)
World Bank Consultant. Assisted in the technical design, preparation, appraisal and implementation of the project.

Integrated Social Protection System for Malaysia. (2013)
World Bank Consultant.

UCLA Medical Center Electronic Medical Records. (2006–2007)
IBM Consultant.

Merrill Lynch Derivative Trading System. (2005)
IBM Consultant.

Streaming Analytics for Neonatal Intensive Care Unit. (2008–2009)
IBM Consultant to Principal Investigator (PI) from University of Ontario Institute of Technology.

Database Adapters for IBM InfoSphere Streams. (2008–2009)
Research Scientist. Design, prototype and implement adapters for integrating InfoSphere Streams with IBM database servers.

Index Compression Line Item in IBM DB2 LUW Cobra Release. (2007–2008)
Research Scientist. Design, prototype and benchmark index compression schemes which achieved compression rates of 50% exceeding the targeted rate of 40%.

IBM DB2XML Product Development. (2004–2006)
Lineitem owner of the XML runstats component in IBM DB2 v9.1 (Viper).

Selected Publications

1. *An Experimental Survey of Evaluation Strategies for Constellation Queries*. Glenn Galvizo and Lipyeow Lim. Scientific and Statistical Database Management Conference (SSDBM), 2019.

2. *What's That Plant? WTPlant is a Deep Learning System for Identifying Plants in Natural Images*. Jonas Krause, Lipyeow Lim, Kyungim Baek, and Gavin Sujita. BMVC Workshop on Computer Vision Problems In Plant Phenotyping (CVPPP), 2018.

3. *Query-Aware Compression of Join Results*. Christopher M. Mullins, Lipyeow Lim, and Christian A. Lang. EDBT 2013

Selected Patents

1. *Dynamic Maintenance of Web Indices Using Landmarks*. Lipyeow Lim, Min Wang, Sriram Padmanabhan, Ramesh Agarwal. Issued.

2. *Method, Appairatus and System for Business Performance Monitoring and Analysis Using Metric Network*. Hui Lei, Pu Huang and Lipyeow Lim. Issued.

3. *A method and system for XML statistics collection in DBMSs*. Min Wang, Lipyeow Lim and George Mihaila. Issued.

Personal

Citizen of Singapore. U.S. Permanent Resident.
Language ability on a scale of 1 (poor) to 5 (native-level): English (5), Mandarin (4), German (2), Cantonese (3) and the Teochew (3) dialect.