Kristian Slabbekoorn

Software engineer

Tokyo, Japan
✆ *+81 (80) XXXX XXXX*
✉ *kt.slabbekoorn@gmail.com*
✇ *http://ktslabbie.github.io*

Education

2012–2016 **Ph.D**, *Tokyo Institute of Technology*, Tokyo, Japan.
Thesis: Ontology-assisted Methods for the Detection and Clustering of Hierarchical Topics on the Social Web

2010–2012 **MSc. Computer Science**, *Delft University of Technology*, Delft, The Netherlands.
Thesis: Domain-aware Ontology Matching on the Semantic Web
Notables: presented two research papers at premier international conferences; thesis grade of 9.5 (out of 10); six months IT consulting for a finance startup as part of course work.

2005–2010 **BSc. Computer Science**, *Delft University of Technology*, Delft, The Netherlands.
Thesis: Sococa: a real-time socializing and localization platform
Notables: thesis performed as part of a five-month internship at the Cybermedia Center of Osaka University, Japan.

Experience

Employment

2015–current **Senior software engineer (2017–current),**
Software engineer (2015–2017), *Gilt Groupe Japan*, Tokyo, gilt.jp.
Headed the services team at Gilt Japan, which is responsible for developing the back-end Web services driving the Gilt fashion flash sale e-commerce site. Notable contributions include:

- Design and development of a production-grade personalization and recommendation engine based on collaborative filtering from the ground up, currently used for sale recommendation and personalized auto-complete. It has provided a significant boost to customer conversion rates.
- Design and development of a distributed job system based on Redis, providing a simple way of scheduling and running tasks across multiple instances or services. It is a pivotal component in the architecture that allows easy scaling of expensive tasks, such as the concurrent sending of millions of emails and push notifications at peak times.
- Major improvements and additions to email/notification services, including the development of a Web-based internal tool to allow the creation and scheduled sending of custom emails to user-defined segments of members. It has allowed significant cost-saving by cutting out third-party providers.
- Migration of the infrastructure from bare-metal servers to the cloud (AWS), dealing with challenges such as reduced processing power and memory and increased horizontal scaling, refactoring/removal of legacy components, automation of build and deployment, Docker containerization, zero-downtime migration, and more.

Other responsibilities include coordination with other development teams to design and implement new features, communication with Japanese-speaking non-technical teams to resolve issues and requests, and interviewing and training of new hires.

Key technologies: Java, Scala, PostgreSQL, Javascript, Angular, Ruby, Redis, Elasticsearch, Docker, AWS

2014–2015　**Co-founder**, *Solve K.K.*, Tokyo, solvelocalization.com.
Helped found a mobile app localization and marketing company, where I was responsible for:
○ The creation and maintenance of company Web resources;
○ App Store analysis and app marketability research;
○ English-to-Japanese localization assistance;
○ Meetings and negotiations with overseas clients;
○ Mentoring of interns.

2008　**Software engineer**, *European Union eBIT Project, CICAT TU Delft*, Delft.
Developed the front-end of a Microsoft Office proficiency assessment tool. The application has seen real use in screening applicants at the University of Colombo, Sri Lanka.
Key technologies: PHP, HTML/CSS/Javascript, XML/XSLT, MySQL

Selected personal projects

2014　**The Willy Report**, willyreport.wordpress.com.
Authored the influential Willy Report, which analyzes trading logs from the collapsed Mt. Gox Bitcoin exchange to show that fraudulent bots were likely related to Bitcoin's $1200+ price bubble and the exchange's loss of over $400 million worth of Bitcoin. The report received worldwide media attention and is still referenced on a regular basis.
Featured in: *The Guardian*, *International Business Times*, *TechCrunch*, and more.

2013　**Midas: machine learning-based Bitcoin trading**, github.com/ktslabbie/Midas.
Midas is a Chrome plugin that implements a real-time trading algorithm based on technical analysis, using supervised machine learning on historical data to train a regression model.
Key technologies: HTML/CSS/JS, Machine learning, Bitcoin, Chrome plugin development

Languages

English	**Fluent**	*TOEIC score: 990 (2012)*
Japanese	**Professional**	*JLPT N1 (2009)*
Dutch	**Native**	

Skills (est. years of experience)

Languages	Java (10+), Scala (2), Javascript (5), Ruby (2), Node.js (1), LaTeX(4)	Frameworks	Jetty/Jersey/Jackson (3), Guice (3), MyBatis (3), AngularJS (3), Play (2), Rails (1), Node.js/Express (1)
Platforms	Git(hub) (3), Amazon AWS (1)	DB	MySQL/PostgreSQL (5)
Tools	Redis (2), Elasticsearch (2)	OS	OSX (5), UNIX (3)

Selected publications

○ **Slabbekoorn, K.** *Ontology-assisted Methods for the Detection and Clustering of Hierarchical Topics on the Social Web*. Doctoral Thesis, 2016

○ **Slabbekoorn, K., Noro, T., Tokuda, T.** *Ontology-Assisted Discovery of Hierarchical Topic Clusters on the Social Web*. Journal of Web Engineering (JWE). 15. 361-396, 2016

○ **Slabbekoorn, K., Hollink, L., Houben, G.J.** *Domain-Aware Ontology Matching*. Proceedings of the 11th Intl. Semantic Web Conference (ISWC), 2012