

Akshay Viswanathan

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<http://akshayv.github.io>

<https://github.com/akshayv>

Efficient, highly-motivated, hard-working with 3+ years of experience. Capable of adapting to various software development processes and technologies.

Professional Experience

Gavagai AB

Stockholm, Sweden

Gavagai AB is a Stockholm based startup which performs big data analytics on large incoming data streams, in real time, using unsupervised machine learning algorithms.

Software Developer

July 2013 - Present

- Part of continuous delivery/agile process
- Accomplishments:
 - Introduced system-wide integration tests using the Arquillian framework
 - Initiated and facilitated system-wide migration of cache implementation
 - Implemented a scalable solr-indexing scheme to speedup word comparison and retrieval

Intern

August 2012 - June 2013

- Introduced to agile and lean-startup methodologies
- Involved in development of products, core technology and algorithms
- Hired as full time employee after duration of internship
- Accomplishments:
 - Used Google Web Toolkit, Bootstrap and HTML5 to develop the GUI in different portions of the system
 - Involved in development of the RESTful API using the JBOSS RESTEasy framework
 - Involved in migration of system from JBOSS 5 to JBOSS 7
 - Facilitated integration with Apache Solr as a datastore using the SolrJ library
 - Facilitated integration with Liquibase for database schema refactoring and versioning

IBM Singapore

Singapore, Singapore

Intern

May 2012 - July 2012

Developed a web portal for the Sales and Marketing division of IBM Singapore to display aggregated data from several databases, to replace the existing Excel spreadsheet solution.

- Accomplishments:
 - Aggregated data from several IBM sales databases (DB2, SQL Server) and displayed them
 - Implemented a login system for the portal with different levels of access and corresponding features
 - Developed a bug tracker for the same portal to allow user feedback and feature requests

Research

Scaling up Machine Learning Techniques via Parallelization for Large Data

June 2014 - April 2015

Final Year Dissertation at National University of Singapore.

Formulated and implemented a novel Parallel Support Vector Regression algorithm to ensure scalability of the Support Vector Regression algorithm for large data, through usage of Parallel Computing and Matrix Approximation techniques.

Designed and developed a wearable belt equipped with ultrasonic sensors, Arduino and RaspberryPi to assist with obstacle detection and indoor navigation for the visually impaired.

Education

National University of Singapore

Singapore, Singapore

August 2010 - May 2015

- Undergraduate Studies, Bachelor's Degree in Engineering.
- Major Computer Engineering; Specialization in Large-Scale Computing.
- Minor in Technopreneurship.
- Graduated with First Class Degree with Honours
- Achievements:
 - Recipient of Dean's List Award (Top 5% of the cohort) - Academic Year 2011/12 Semester 1
 - Recipient of Dean's List Award (Top 5% of the cohort) - Academic Year 2011/12 Semester 2
 - Recipient of Dean's List Award (Top 5% of the cohort) - Academic Year 2013/14 Semester 2
 - Recipient of Dean's List Award (Top 5% of the cohort) - Academic Year 2014/15 Semester 1
 - Recipient of NUS Overseas Colleges (NOC) scholarship
 - Secretary, NUS Sathya Sai Society - Community Service

KTH Royal Institute of Technology

Stockholm, Sweden

August 2012 - June 2013

- Exchange Studies, Computer Science

Stockholm School of Entrepreneurship

Stockholm, Sweden

August 2012 - June 2013

- Exchange Studies, Entrepreneurship/Entrepreneurial Studies

Technical Skills

- **Programming Languages:** Java, Java Enterprise Edition, C++, C#, C, Python
- **Web Development:** HTML5, CSS3, Javascript, JSP, ASP, Google Web Toolkit
- **Database Technologies:** MySQL, PostgreSQL, SQLite, Apache Solr, Redis, Cassandra, ElasticSearch, MongoDB
- **Application Development:** Android, Windows Phone
- **Tools and Frameworks:** Subversion, Git, JUnit, TestNG, JBOSS, Liquibase, Jenkins, EhCache, Maven, Selenium, Apache Tomcat, Maven, OpenCL, OpenGL, VHDL (Hardware Description), Shell Scripting, MPI
- **Operating Systems:** Linux, OSX
- **Other:** Machine Learning, Parallel Computing, Distributed and Scalable Systems, Computational Linguistics