

VIJAYALEKSHMI KESAVAN

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WORK EXPERIENCE

Engineer, HealthcareMagic (August 2014 - Present)

- Manage the entire frontend and backend stack of healthcaremagic.com being an individual contributor.
- Major Contributions:
 - Designed and implemented Restful APIs to extend our health services to third parties, a kiosk service for Rajasthan government and a portal for middle east doctors to name a couple.
 - Worked with several internal teams (operations, content management, doctors etc.) and external clients to build systems to improve operations.

Senior Engineer, @walmartlabs (April 2012 - February 2014)

- Display Advertisement Technology: Worked on building a Real Time Bidding Ad platform in partnership with external DSPs which was tailored for re-targeting users.
- Keyword Intelligence for SEO and SEM: Worked on mining relevant keywords and recommending keywords for walmart.com items. Used Google Adwords API and internal Muppet (Fast processor for streaming data) application to process keywords.

Software Development Engineer, Amazon.com (July 2009 - April 2012)

- Tiered Storage for Ordering: Managed various storage frameworks for checkout applications. Worked on order data migration from Mysql to Amazon S3 and Shopping Cart deprecation from Dynamo.
- Data Warehousing and Business Intelligence: Worked for Amazon's core DW/BI Team taking responsibilities including Data Modeling, SQL Development and Project Management, while handling massive data volumes.

TECHNICAL INTERESTS

Algorithms, Data Structures, Computational Geometry, Machine Learning, Data Mining, Distributed Systems(Computational and Storage).

TECHNOLOGIES WORKED ON

Programming Languages: Java, JavaScript, C, C++, PHP, Python, SQL, PL/SQL, Perl

Databases: Oracle, Teradata, MySQL, Hive, Cassandra, MongoDB, Redis

Tools: Jenkins, Matlab, Weka, libsvm, RL-Glue, LaTeX, Datanet(ETL tool), SQL Tools

Programming Tools: git, maven, ant

Frameworks: Play Framework, Struts

Web Technologies: HTML, CSS, JSP, jQuery, Bootstrap

EDUCATIONAL QUALIFICATIONS

Degree and Branch	University	Duration	% / CGPA
MTech, Computer Science and Engineering	Indian Institute of Technology, Madras	2007-2009	8.97/10
BTech, Computer Science and Engineering	TKM College of Engg., Kollam / Kerala University	2003-2007	8.30/10
Higher Secondary Education(XII)	Board of Higher Secondary Examination, Kerala	2001-2003	92.83%

ACADEMIC PROJECTS

- Active Machine Learning for State Mapping (2008-2009)

Worked on an emerging Machine Learning research area called Active Learning, which is a technique used in Supervised learning algorithms to minimize the cost involved in learning a task. As part of the project, we proposed and implemented an Active learning algorithm to transfer the learning from a Robotic Agent to another, first one being a Robot that was already trained in similar environments, by mapping states in a Transfer learning model.

- Air Conditioner Maintenance and Complaint Tracking Software for IIT Madras.(2007)

Developed a web based application to track the complaints to AC Maintenance Dept.. This was done in PHP-MySQL-Apache platform and was deployed in IIT Madras Intranet.

- Computational Geometry based Path planning and Visibility polygon detection (2006-2007)

Worked on two research problems in Computational Geometry with applications to Robotics. Problems: (1) Finding the shortest path for a point robot in a room with polygonal obstacles. (2) Finding the visibility polygon for a point light source in a room with polygonal obstacles. Developed and implemented two novel algorithms to accomplish the above tasks with promising results.

RELEVANT COURSES DONE

Graduate level: Advanced Data Structures and Algorithms, Topics in Approximation and Randomized Algorithms and Zero Knowledge Protocols, Reinforcement Learning, Data Mining, Advanced Computer Networks, 'Real-time Computing and Communication, Advanced Computer Architecture, Software Engineering: Theory and Practice, Advanced Mathematical Concepts in Computer Science.

Undergraduate Level: Computational Geometry, Algorithm Analysis and Design, Distributed Systems, Cryptography and Network Security, Wireless Networks, High Performance Computer Systems

ACADEMIC ACHIEVEMENTS

- Outstanding Teaching Assistant award for the year 2009 in IIT Madras.
- All India Rank 101 in GATE 2007 (for CSE) Examination
- TCS Best Student Award during under-graduate studies in TKM CE, Kollam in 2007
- College Topper and University 4th Rank holder for BTech
- School and District level topper for Higher Secondary Examination

OTHER INTERESTS

- Philosophy, Psychology, and Cognitive Sciences
- Music, Photography, Running, and Trekking