

Jonathan Bhaskar

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Technical Skills

- *Web technologies* - Django, Node, HTML, CSS & Sass, D3.js
- *Big Data & Machine learning* - Spark, scikit-learn, scipy, Caffe, R, Hadoop
- *Others* - DVCS (Git, Mercurial), Relational databases, Cloud Computing with AWS

Education

M.Sc. In Computing Science

Sep 2014 – Feb 2016

Professional Master's Program in Big Data

Simon Fraser University, Burnaby, Canada

- Coursework: Design and Analysis of Algorithms, Machine Learning, Data Mining, Distributed Systems, Programming for Big Data, Statistical Learning, Visualization.

B.Tech. in Information Technology (Engineering)

Aug 2006 – May 2010

Anna University, Chennai, India

- Coursework: Algorithms, Data structures, Database management systems, User interface design, Networking, Software Engineering, Object-oriented programming.

Work Experience

Research Assistant – *Data Analyst/Web developer*

May 2015 – Aug 2015

Simon Fraser University, Burnaby, Canada

- Worked on data munging, merging, and statistical analysis on Student Course data to discover trends that could lead to better academic performance.
- Performed exploratory data analysis using interactive visualizations with D3.js.

Teaching Assistant – *Computer Science courses*

Aug 2014 – Apr 2015

Simon Fraser University, Burnaby, Canada

- Fall 2014 – Web-based Info Systems
- Spring 2015 – Cloud Computing
- Responsible for assignment rubric, assignment and project grading, and office hours.

Software Engineer – *Full stack Web Developer*

Jul 2013 – Jul 2014

Tenmiles Technologies, Chennai, India - Popular helpdesk (customer support) web product.

- Designed the user experience and developed the front end for a complete product redesign.
- Analyzed, designed and implemented (both back and front end) various crucial features based on customer requirements, resulting in customer acquisition.
- Involved in the overall product roadmap and design decisions.

Web Developer – *Front end Developer*

Nov 2013 – May 2014

Organizor.org (Freelancer), Remote - CRM web product.

- Designed and developed the entire front end.
- Received many commendations by customers for design and usability.

Programmer Analyst – *Backend Web Developer*

Nov 2010 – May 2012

Cognizant Technology Solutions, Chennai, India - Top UK energy provider.

- Developed and maintained online “customer journeys” for new pricing plans.
- Managed back-end changes for a significant application redesign.
- Responsible for technical training of new recruits.
- Won a domain-level award for technical excellence.

Projects

Web Development

- [*Metro Vancouver Bus Dashboard*](#) - Created a real time interactive Geovisualization of bus positions and delays with aggregated statistics.
- [*High School down, where next?*](#) - Made an interactive visualization for high school graduates to compare the programs offered by post-secondary institutions in Canada with living expenses. Won “Best Student Team” at the Canadian Open Data Hackathon.

Machine Learning

- [*Predicting the likability of a photo on Instagram*](#) - Built a web app that predicts the probability of an uploaded image getting a high number of likes on Instagram using Convolutional Neural Networks.
- [*Convolutional Neural Networks*](#) - Wrote a paper explaining the working of Convolutional Neural Networks in detail.
- [*Ranking products by Bayesian estimates*](#) - A study and proposal for a better way to rank products on the Internet.

Others

- [*Measuring the effect of inventing practice exercises on learning in an introductory programming course*](#) - Co-authored a published paper “Measuring the effect of inventing practice exercises on learning in an introductory programming course”.
- [*Distributed Consensus Protocols*](#) - Wrote a paper comparing Paxos and Raft, two distributed consensus protocols.