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## RESUME

### Jonathan Bhaskar

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## Skills

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

## Work Experience

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### Research Assistant

May 2015 – Aug 2015

*Simon Fraser University, Burnaby, Canada*

*Data Analyst/Web developer.*

- 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

Aug 2014 – Apr 2015

*Simon Fraser University, Burnaby, Canada*

*Teaching Assistant for undergraduate courses in Computing Science.*

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

### Software Engineer

Jul 2013 – Jul 2014

*Tenmiles Technologies, Chennai, India*

*Full stack Web Developer for a 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

Nov 2013 – May 2014

*Organizor.org (Freelancer), Remote*

*Front end Developer for a CRM web product.*

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

## **Programmer Analyst**

Nov 2010 – May 2012

### ***Cognizant Technology Solutions, Chennai, India***

*Backend Web Developer for a 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**

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### **Machine Learning**

- Built a web app that predicts the probability of an uploaded image getting a high number of likes on Instagram using Convolutional Neural Networks.
- Wrote a paper explaining the working of Convolutional Neural Networks in detail.
- Predicted cancerous mutations using Active Learning.

### **Web Development**

- Created a real time interactive Geovisualization of bus positions and delays with aggregated statistics.
- 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.

### **Others**

- Co-authored a published paper “Measuring the effect of inventing practice exercises on learning in an introductory programming course”.
- Wrote a paper comparing Paxos and Raft, two distributed consensus protocols.

## **Education**

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### **M.Sc. In Computing Science**

Sep 2014 – Feb 2016

***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: Discrete mathematics, Algorithms, Data structures, Database management systems, Operating systems, User interface design, Networking, Software Engineering, Object-oriented programming, Computer Architecture.