**HARSH VERMA**

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[www.harshverma.com](http://www.harshverma.com)

**EDUCATION**

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University of Toronto, St. George Campus

Computer Engineering, Bachelors in Applied Science and Engineering

Expected date of graduation: June, 2017

**TECHNICAL KNOWLEDGE**

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* RESTful backend micro-services: Python, Flask, SQLAlchemy, MYSQL, Alembic
* Web development: Node/Express, Angular, React, Redux, Bootstrap, PHP, HTML, SASS, Webpack, Npm, Mocha, Chai
* DevOps: Docker, AWS, EC2, Elastic Beanstalk, RDS, ELB, Splunk, New Relic, TravisCI
* Relational Algebra, SQL, XML, XQuery/XPath
* Concepts: OOP, MapReduce, Unidirectional data flow (Flux), REST
* Other languages: C, C++, Assembly, Verilog
* Git, OpenSSL

**WORK EXPERIENCE**

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**EventMobi - Software developer** [May 2015 - August 2016]

* + Was part of the engineering team that was responsible for the real-time user engagement products of the company
  + Delivered 3 new products: private chat, group discussions and live display (digital signage). Maintained other products such as live polling, event surveys and gamification.
  + Heavily involved in writing the front-end for these applications using Angular, React, Node and integrating with third party services such as SocketIO, Pusher
  + Implemented RESTful backend services for the above mentioned products in python
  + Configured the live display (digital signage) React application for internationalization
  + Was responsible for deploying code to production environment on a rotational basis

**PROJECTS**

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* Web development [July 2016 - Present]
  + React JS application: [www.harshverma.com](http://www.harshverma.com)
  + Used ExpressJS for the backend, Redux for application state management.
  + Implemented user authentication using Google sign-in
  + Docker in conjunction with Elastic Beanstalk to deploy the multi-containerized application
* Back-end API [June 2016]
  + Implemented an API using Python-Flask and Flask-RESTful
  + The API layer sits on top of SQLAlchemy ORM models, tables in a MYSQL database
* Data Analysis [Summer 2014]
  + Twitter stream analysis: Sentiment score analysis, top ten hashtags
  + Similarity matrix: Term-document vectors to determine similarity between documents by matrix multiplication
  + Computed out-degrees of various nodes in the “billion triple dataset” (0.5 TB graph)