

HARSH VERMA

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www.harshverma.com

EDUCATION

University of Toronto, St. George Campus

Computer Engineering, Bachelors in Applied Science and Engineering

Expected date of graduation: June, 2017

TECHNICAL KNOWLEDGE

- 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

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

- Web development [July 2016 - Present]
 - React JS application: 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)