HARSH VERMA

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EDUCATION

University of Toronto, St. George Campus   Field of study: **Computer Engineering**
Expected date of graduation: **May, 2017**   CGPA: 3.04

TECHNICAL SKILLS

- RESTful backend micro-services: **Python**, **Flask**, SQLAlchemy, **MYSQL**, Alembic
- Web development: Node, **Angular**, ES6, **React**, Redux, Bootstrap, PHP, HTML, SASS, Webpack, Npm, Mocha, Chai
- DevOps: **Docker**, AWS, EC2, Elastic Beanstalk, RDS, ELB, Splunk, New Relic, TravisCI
- Other programming languages: C, **C++**
- Relevant courses: Algorithms, Databases, Computer security, Distributed systems

WORK EXPERIENCE

EVENTMOBI | Software Engineer Intern (**16 months**)   [May 2015 - August 2016]
- Full-stack development of applications such as private chat (~5000 users), discussions (<= 25 channels), live polling (5000 users at a time) and digital signage
  - Experienced with **Angular, React and Node** on the front-end. Used **Redux** for state management.
  - Implemented RESTful backend data services using **python**, architected database relations and structure
- Responsible for the **internationalization** of the digital signage React application
- Created **internal analytics dashboards** for monitoring usage data using **React and D3**
- DevOps: Was on-call for handling server issues, deployment of code to production bi-weekly

PROJECTS

- Search engine   [Sept 2016 – Dec 2016]
  - Frontend: Used python bottle framework. Implemented features such as auto-completion, search recommendation
  - Web Crawler: Scraped the web and ranked documents based on Google's page rank algorithm
- Web development   [July 2016 - Present]
  - Frontend: Personal website using **React** (www.harshverma.com).
  - Containerized the application using **Docker** and deployed it using **AWS Elastic Beanstalk**.
- 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]
  - Used Twitter API for sentiment analysis, Pig-Hadoop for computing degree of large graph datasets

OTHER

- Interested in data science and machine learning
  - Currently taking **Intro to Machine Learning** on Udacity
  - Completed **Introduction to Data Science** on Coursera (92.8%)
- Hacker Academy, University of Toronto: Participate in mini-hackathons every month
- Working on a distributed key-value storage server