

KASHAV MADAN

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EDUCATION

B.Sc., Computer Science & Mathematics, *University of Toronto*

Expected May 2019

RELEVANT EXPERIENCE

Firefox Platform Intern, *Mozilla*

May 2018 – Aug 2018

Lead Developer, *UofTHacks*

Since Sep 2016

- Manage developer team to build and ship **tri-portal system** for hackers, sponsors, and administration
- Lead and contribute to **backend design and development** for various functionality, including hacker registration, application management, scoring portals, check-ins, and more
- Build and maintain **robust pipelines** for periodic backups, deploys, and data aggregations/dumps

Software Developer, *UofT Entrepreneurship Hatchery*

Sep 2016 – Mar 2017

- Contributed to development of Dashboard platform used by admin. and start-up teams
- Led overhaul of large PHP codebase to leverage modern **RESTful patterns** with **microservice-based** model, including services for **team-matching** and **database migrations**
- Introduced reliable **deployment process** into workflow with **multiple staging environments**; managed various developer operations including version control, code reviews, and production backups

Web Developer, *Ontario Public Service*

May 2016 – Aug 2016

- Contributed to development of enterprise-wide Intranet web platform serving over 40,000 daily users
- Added **cache layer** to web API with **Redis** to significantly reduce page-load and server response times
- Optimized **Elasticsearch** implementation to **increase search speeds by over 25%** by utilizing various **caching mechanisms** for heavy aggregations

Software Developer, *App Mastery*

May 2016 – Aug 2016

- Utilized web technologies to build native video-streaming applications for Samsung & LG Smart TVs
- Added support for **video ads** with a **subscription-based payment model** using the Stripe API
- Implemented **point-and-click analytics** with Google Analytics
- Introduced modern JavaScript to team and **led transition of large codebase** from ES5 to ES6+

SELECTED PROJECTS

fsql – <https://github.com/kshvmdn/fsql>

2017

- An SQL-inspired **parser and interpreter** for querying large filesystems, written in Go
- Reached top post on HackerNews and trended on GitHub with **3,400+ stars** and **90+ forks**

Cobalt / UofT Scrapers (collaborator) – <https://github.com/cobalt-uoft>

2016

- Collection of **open data APIs** to interface with public information from the University of Toronto
- Contribute to open source development and maintenance of Python web scrapers and Node.js API

nba.js – <https://github.com/kshvmdn/nba.js>

2015

- **Reverse-engineered** NBA.com network requests to expose a **set of Node.js APIs** to interface with player and game data
- Trended on GitHub with **200+ stars** and **20+ forks**

SKILLS

Languages Go, JavaScript (Node.js), C/C++, Java, Python, Bash, SQL/NoSQL

Technologies & Tools Git, MongoDB, Redis, PostgreSQL/MySQL, Docker, Kubernetes, AWS (EC2, S3, RDS)

VOLUNTEER INVOLVEMENT

UofT Web Development Club (Webmaster), University of Toronto, Dept. of Computer Science (Ambassador)