## KASHAV MADAN

kshvmdn@gmail.com | (289) 233-9850 https://kshvmdn.com https://github.com/kshvmdn https://linkedin.com/in/kshvmdn **EDUCATION** H.B.Sc., Computer Science, University of Toronto Sep 2015 - Apr 2019 Specialist in Computer Science with a Minor in Mathematics **WORK EXPERIENCE** Software Engineering Intern (Platform Graphics), Mozilla May 2018 – Aug 2018 Contributed to compositor component responsible for handling asynchronous panning/zooming Improved fixed-position compatibility in Firefox for Android by updating where elements are painted and how their asynchronous transformations are computed Debugged and fixed multiple failing reference and behaviour tests related to compositor/layout code Identified various bugs in an automation suite responsible for running tests in chaos mode Organizer & Lead Developer, UofTHacks Since Sep 2016 Manage developer team to build and ship portal system for hackers, sponsors, and administration Lead and contribute to development of core components, including hacker/sponsor registration, application management, check-ins, judging dashboards, and more Build and maintain robust pipelines for periodic backups, deploys, and data aggregations Sep 2016 - Apr 2017 Software Developer, *UofT Entrepreneurship Hatchery* Contributed to development of Dashboard platform used by administration and start-up teams Led overhaul of large PHP codebase to leverage modern RESTful patterns with microserviceinspired model, including services for team-matching and database migrations Introduced reliable deployment process into workflow with multiple staging environments and automated deploys Junior Web Developer, Ontario Public Service May 2016 - Aug 2016 Contributed to development of enterprise-wide Intranet 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 **SELECTED PROJECTS** 2017 fsql - https://github.com/kshvmdn/fsql 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 Node.js API and Python web scrapers 2016 **nba.js** – https://github.com/kshvmdn/nba.js Reverse-engineered NBA.com network requests to expose a set of Node.js APIs to interface with

## **SKILLS**

player and game data

Languages Go, JavaScript, Java, Python, C, C++, Bash, Rust

- Trended on GitHub with 250+ stars and 20+ forks

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