KASHAV MADAN

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https://github.com/kshvmdn http://kshvmdn.com https://linkedin.com/in/kshvmdn **EDUCATION** B.Sc., Computer Science & Mathematics, University of Toronto Expected May 2019 Relevant courses: Algorithm Analysis, Data Structures, Operating Systems, Intro. to AI, Number Theory **WORK EXPERIENCE** Software Developer, *UofT Entrepreneurship Hatchery* Sep 2016 - Mar 2017 Contributed to development of Dashboard platform used by Hatchery members Led overhaul of large PHP codebase to leverage modern RESTful patterns with microservice-based model, including services for team-matching and database replication - Rewrote expensive team-matching algorithm by incorporating graph-based solution Introduced reliable deployment process into workflow with multiple staging environments; managed various developer tasks including version control, code reviews, and production backups Web Developer, Ontario Public Service May 2016 - Sep 2016 Contributed to development of enterprise-wide Intranet web platform serving over 40,000 daily users Added cache layer to web API using 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 - Sep 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 webhook-based point-and-click analytics with Google Analytics - Introduced modern JavaScript to team and led transition of large codebase from ES5 to ES6+ **SELECTED PROJECTS** 2017 fsql, https://github.com/kshvmdn/fsql An SQL parser, interpreter, and evaluator written in Go for querying large filesystems - Reached top post on HackerNews and trended on GitHub with 3,400+ stars and 90+ forks **rdrp**, https://github.com/kshvmdn/rdrp 2017 - AirDrop-inspired tool for sending and receiving files over a local network Uses zero-configuration networking (mDNS) to enable server-less transfer functionality 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 2015 **nba.js**, https://github.com/kshvmdn/nba.js - Reverse-engineered NBA.com client-side 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** Go, Node.js / JavaScript, Python, Java, C, PHP, Ruby (Rails), SQL / NoSQL, Shell Languages Technologies/Tools Git, MongoDB, Redis, PostgreSQL, Docker, Kubernetes, AWS (EC2, S3, RDS)

VOLUNTEER EXPERIENCE

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