



RIDWAN SHARIF

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SKILLS

- Experienced in Go, C/C++, Python, Scheme/Racket using vim/tmux, Git
- Interested in security/cryptography, backend engineering and systems design

PROJECTS

- mqueue** git.io/vMKXe
- Constructed an in-memory message broker in Go over an HTTP API
 - Designed concurrent, thread-safe publisher/subscriber architecture with multiple topics
- prsa** git.io/vMKPx
- Built the RSA public-key cryptosystem in Python with a command line client
 - Implemented ciphertext generation & decryption routines using generated public-private keypair
 - Used highly performant exponentiation algorithms, 1000+ unique page views
- fzysearch** git.io/vKyww
- Published a fuzzy-string matching pip module/library in Python for approximated query matches
 - Used Levenshtein's edit distance algorithm & average weighted distance for ordering results
- airport** git.io/vMKXJ
- Published a command utility for fast directory navigation using previously visited locations
 - Used fzysearch to prune through search space and identify closest matching result

EDUCATION

- University of Waterloo** 2016 – 2021 (*expected*)
Bachelors of Computer Science, Honours
- Hack the North (Volunteer), UW Robotics Club, President's Scholarship (95th percentile)
 - Selected Courses: Algorithm Design, Functional Programming

ACTIVITIES AND VOLUNTEERING

- Volunteer in UAE** Dubai, UAE
Bronze Volunteer
- Volunteered at the Summit Silence, Pink Walkathon, Pink Book Sale, Nike Run, Operation Ozone, Helping Hands, Blood Drives and Ocean Cleanup
- HP Electronics** Dubai, UAE
Sales Representative
- Sold 450+ laptops and 250+ printers at Gitex (Gulf information technology exhibition)
- St. Mary's Catholic High School** Dubai, UAE
Head-Boy, House Captain, Senior Prefect
- Elected Head-Boy, elected House Captain, senior member of solidarity group, designed school yearbook and prom invites & organised charity events