



RIDWAN SHARIF

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SKILLS

- Experience 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 a 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 and 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 and 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, House-Captain, senior member of solidarity group
- Designed school yearbook and prom invites, organised charity events