RIDWAN SHARIF

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SKILLS

- · Experience in Go, C/C++, Python, Scheme/Racket using vim/tmux and 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
- · Built an embeddable client library in Go to interface with the API

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

 ${\it lispy} \hspace{2cm} {\it git.io/vyfVt}$

- · Built a Scheme/LISP interpreter in Python with interactive command line environment
- · Implemented tokeniziation, parsing, loading environments and evaluating valid scheme code

 ${\it fzysearch} \hspace{2cm} {\it git.io/vKyww}$

- · 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

 $egin{aligned} extbf{airport} & extit{git.io/vMKXJ} \end{aligned}$

- · 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 and Senior Member of solidarity group
- · Designed school yearbook and prom invites, organised charity events