



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

WORK EXPERIENCE

NCR Corporation Ltd

May - Sept, 2017

System Software Engineering Intern

- Add details about the iNCRredible work term you've had

PROJECTS

raft

TBD

This should be fun. Implementation of the raft consensus algorithm that ensures high availability, fault tolerance and much more.

sws password vault

NCR Ltd.

- Vault details here

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

lispy

git.io/vyfVt

- Built a Scheme/LISP interpreter in Python with interactive command line environment
- Implemented tokenization, parsing, abstract syntax trees and evaluating of valid scheme code
- Complete with valid scheme interpretation of data structures, error handling and lambda calculus

cache

git.io/vMKXJ

- Cache and gRPC details here.

*Other notable projects: **fzysearch**, **airport**,*

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*

- 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*

- Sold 450+ laptops and 250+ printers at Gitex (Gulf information technology exhibition)

St. Mary's Catholic High School*Dubai, UAE*

- Elected Head-Boy, House-Captain, Senior Prefect and Senior Member of solidarity group
- Designed school yearbook and prom invites, organised charity events