jonathan lemos

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education

bs | computer science
university of north florida
spring 2018 - present

- expected graduation: spring 2021
- gpa: 4.0
- dean's list: spring 2018 - present

coursework

- computer science I & II
- data structures
- computability and automata
- calculus I & II
- physics I & II

technologies

languages
c • c++ • java (+android) • react •
python • typescript/javascript •
scala • sql • html/css

operating systems
arch linux • ubuntu • windows 10

ides
vscode • pycharm • intellij • vim

other skills
git • regex • linux administration

competitions

hourrank 31
an hour-long competition held on
hackerrank
placed 154 out of 962

secccdc 2019
a six-hour long cybersecurity
competition
results pending

projects

isqscraper
web app that scrapes instructor ratings off an unlisted website.
    has a mobile-responsive frontend for an otherwise arcane user interface
    results are delivered as-you-type using react
    results are cached via mysql for faster responses
    the project is documented in jsdoc format and tested with jest
    typescript is used for increased scalability over plain javascript

technologies used:

- bootstrap - makes the website look good and mobile-responsive
- cheerio - powers the web scraping
- express - serves the web app
- jest - unit testing
- jsdoc - documentation generation
- jquery - makes ajax calls and powers bootstrap
- mysql - caches scraper results
- react - makes the web app respond dynamically to new data
- typescript - the language the project is written in

cloudsync
fast off-site backups
    c++ is used for speed and extensive library support
    a variety of compression algorithms (gzip, bzip2, etc.) are supported
    a variety of symmetric encryption ciphers (aes-256, cast6, etc.) are supported
    asymmetric encryption through gpg (rsa 2048/4096) is also supported
    a variety of remotes (ssh, mega.nz, google drive) are supported
    results are kept locally for speed
    symlinks are supported

technologies used:

- bzip2, gzip, lz4, xz - compression support
- c++ - the language of choice for the project
- curl - interfaces with most cloud providers
- crypto++ - encryption support
- google test - unit testing
- mega sdk - mega.nz remote

clubs

o-sec | osprey-security
fall 2018 - present
    o-sec's purpose is to practice the latest cybersecurity and penetration testing
    concepts on actual systems designed to simulate real-world environments.
    Once-a-year the club participates in ccdc, a national cybersecurity competition.

airo | artificial intelligence research organization
fall 2018 - present
    airo's purpose is to teach students about the latest in AI while collaborating with
    other departments to build real-world AI models.