Daniel Kohn

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PROJECTS

gitlet | *Python, IO, Data Structures, OOP*

- Built a python tool that mimics several of git's local features including add, commit, branch, checkout, rm, and merge
- Implemented code for efficient data storage, modification, and retrieval of gitlet repository data, modelling it using a directed acyclic graph.
- Inspired by but still distinct from a project featured in UC Berkeley's course CS 61B

linktree clone | *Svelte/SvelteKit, Bulma CSS, Node.js, MongoDB*

- Built a clone of the popular site linktree that allows users to generate a custom site that contains links to their social media sites
- Leveraged Svelte, Svelte DnD, and Bulma CSS to build an interactive front end
- Stored user data and information in a MongoDB database
- Built a session based authentication system from scratch using bcrypt to salt and hash user passwords

Chat Application | *Python, Django, WebSockets, Javascript, SQLite, Bootstrap CSS*

- Developed a full-stack chat application with the Django framework
- Utilized the Django-Channels library to create a WebSocket connection to allow users to send and receive messages and notifications in realtime
- Stored user data and messages in a SQLite database with help from Django data models

Other: Chemistry Elements Quiz, dotfiles

SKILLS

Languages: Java, C#, Python, SQL (SQLite, MySql), MongoDB, JavaScript, HTML, CSS
Frameworks: Svelte, SvelteKit, Node.js, Flask, Django, Bootstrap CSS, Bulma CSS
Developer Tools: Linux (Arch and Ubuntu), Bash, Vim, VS Code, Git, Github
Human Languages: English (native), French (fluent)

WORK EXPERIENCE

Lifeguard   Summer 2021, 2022, 2023
Viking Pool   *Pointe-Claire, QC*

- Taught swimming lessons and worked in a team to coach the pool's dive team that placed 1st in both the regular season and finals
- Worked with fellow lifeguards to ensure the safety of swimmer and maintain the facility

EDUCATION

University of Waterloo   Waterloo, ON
Candidate Bachelor's of Computer Science (90.6% Cumulative Average)   *2023 – 2028*

Vanier College   Montreal, QC
Incomplete - DEC in Computer Science and Mathematics   *2022 – 2023*

Other Interests: Competed in diving for 6 years all over Quebec. Solved Rubik's cubes competitively, averaging around 13 seconds per solve. Has been downhill skiing since the age of 4. Plays trombone and was a member of the Quebec Youth Wind Ensemble. Loves listening to jazz music.