

Kyle R. Knot

KyleKnot@outlook.com
<https://github.com/knot427>

(306)441-6632
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Education

University of British Columbia

Bachelor of Science, Majoring in Computer Science
September 2018 – May 2022

Technical Skills & Knowledge

Languages

Java, Python,
TypeScript, JavaScript,
SQL, C, C++

Technologies

Relational Databases,
Data cubes, .NET
framework, Node.js, GIT

Tools and Environments

GitHub, Visual Studios, VS
Code, IntelliJ, Eclipse

Ideologies

AGILE development,
SCRUM, REST APIs,
Unit Testing

Projects

Reddit Concept Mapper (Ongoing)

A personal project that attempts to map the relationships between groups using crowd sourced information gathered through a voting system.

- Built a frontend that preform preliminary data validation and uses REST APIs to communicate with a backend
- Built a backend server using typescript and Node.js that received REST API requests then preformed necessary database queries and data validation
- Created a normalised MySQL database to store and access data efficiently and securely

Water System Querier

A school project that could be used to track watershed and ecosystem health long-term. With the ability to gain insights about the health of these systems through complex queries.

- Designed and set up a MySQL relational database in Boyce-Codd Normal Form
- Built a Java backend server that processed queries and communicated with the database
- Built an Angular frontend that allowed users to view, add, remove, and preform more complex queries on the data

Course-Classroom Query Engine

A school project that allowed a user to preform complex queries over class and building data to help select classes and decide on room bookings.

- Created an efficient depth first system that interprets queries in an EBNF specified language
- Created a backend server using express and Node.js that efficiently allowed for addition, modification and querying of relevant data
- Developed a pure html and JavaScript frontend that allowed for querying using REST APIs
- Added functionality that saved current workloads to disk, allowing backing up current work and recovery in the case of crashes

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Recent Work Experience

Little Loon Regional Park Golf Course – Head Groundskeeper

April 2021 – September 2021

- Assumed role of golf course manager mid season. Increased duties included scheduling of employees, technical knowledge of instruments and equipment, trouble shooting overall areas of the golf course
- Independently learned new skills, closing skill gaps in necessary functions
- Managed inventory
- Maintained and repaired equipment

L&M Wood Products – Data and Computer Specialist

April 2019 – September 2019

- Organized archived data which led to significant time savings when accessing historic data.
- Developed new data entry formats that significantly reduced data miss management and miscommunication.
- Automated data processes causing significant time savings for several different departments.
- Developed new data organisation protocols that preserved efficiencies I created after I left.
- Assisted with assorted IT issues.

Lakeland Library – Assistant Children’s Librarian

April 2018 – September 2018

- Developed children’s educational programming increasing young patrons’ interest in the public library
- Scheduled, prepared for, and managed public events
- Assisted the public with educational endeavors

Extracurriculars

UBC CTF team

January 2020 – May 2020

- Developed skills related to computer networking, cryptography, and low-level execution of programs
- Competed as part of UBC’s CTF team in international competitions

SHAD

Queens University

July 2017 – August 2017

- Developed business management skills
- Designed a product concept
- Presented a business pitch