Nick Korte

720-456-8544 | etroknick@gmail.com | LinkedIn | GitHub | Personal Website

EDUCATION

Colorado State University <div align="right">Fort Collins, CO</div>
Bachelor of Science in Computer Science <div align="right">*Aug. 2020 – May 2024*</div>

Coursework

*Computer Architecture, Operating Systems, Big Data, Algorithms, Linear Algebra, Calculus, Cybersecurity,
Data Structures, Blockchain Principles, DBMS*

EXPERIENCE

IT Lab Systems Analyst (Intern) <div align="right">May 2023 – Aug. 2023</div>
Corden Pharma <div align="right">*Boulder, CO*</div>

* Provided client support on lab system operation and resolved malfunctions with systems and programs through troubleshooting and network analysis. Resolving over 1000 tickets in 3 months.
* Implemented C# scripts to run when user tickets were submitted to give folder and file access to users in Windows Group Policy Management. Saving the IT department staff more than 4 hours each week.
* Used LabVantage to streamline automatic processes to perform repetitive tasks with high accuracy.

IT Intern <div align="right">May. 2021 – Aug. 2021</div>
TKC Construction <div align="right">*Highland, IL (remote)*</div>

* Resolved network and system errors while upholding security practices and helped implement a DMZ on the network to bifurcate government contracts from public contracts.
* Wrote efficient Java programs to parse documents, retrieve specific information, and format it for contractors' use.

PROJECTS

TF-IDF Summary Generator | *Java, Apache Hadoop (HDFS), MapReduce*

* Developed a program to calculate the Term Frequency - Inverse Document Frequency of every unigram in a corpus of tens of thousands of documents to determine a summary of each document.
* Used Java and Apache Hadoop to connect to and run on a cluster of servers at CSU using YARN for a runtime of less than 30 seconds.
* Achieved 95.2% accuracy on summaries for all documents, regardless of size.

Symmetric Key File Encryptor | *C++, CMake*

* Developed a program to do symmetric block and stream cipher encryptions on text files on a 16-byte key in C++.

* Allows users to encrypt and decrypt the files with access to the same key to ensure safe delivery of information across devices.

Andy's World | *C#, Unity, Blender*

* Created a 3D environment where a player playing as Andy, a cat, can run around knocking things off of counters and scratching things to earn points within a time limit.
* Used C# to develop scripts for character movement, camera movement, physics simulation, light angles, etc.
* Built a blender animated cat from scratch with full functionality including running, walking, scratching, jumping, and licking.

TECHNICAL SKILLS

Languages: Python, Java, C++, Typescript, MySQL, Hadoop, Spark, HTML/CSS
Frameworks: Node.js
Developer Tools: Git, Docker, VS Code, Visual Studio, PyCharm, IntelliJ, Eclipse, MongoDB, Apache Tomcat, YARN