Kirk Hietpas

Salt Lake City, UT 84105
LinkedIn • (715) 577 - 2551 • hietpaskirk@gmail.com • GitHub

EDUCATION

University of Utah — *Master of Software Development*
August 2020 - December 2021, Salt Lake City, UT

University of Minnesota — *Bachelor of Science, Major: Biology, Minor: Chemistry*
August 2013 - December 2015, Duluth, MN

SKILLS

C++ / Java / Python / C# / Git / C / Docker / Spring / Javascript / HTML / CSS / SQL (MySQL) / Dlang / Matplotlib / Pandas / PyTorch / Golang / Kubernetes / Kotlin / Android

COURSEWORK

Database Systems and Applications, Data Analytics and Visualization, Data Structures and Algorithms, Systems I (Computer Architecture and Operating Systems), Systems II (Computer Network and Security), Software Engineering, Application System Design

PROJECTS

Caching DNS Resolver *(Java)*

- DNS Resolver that listens for incoming DNS requests. Returns IP address to client from either the local cache or from Google's public DNS server. Caches Google's response for future use.

Transport Layer Security Protocol *(Java)*

- Simplified version of the TLS protocol used in implementation of a file transfer system.

MSDScript Interpreter *(C++)*

- Interpreter for mathematical expressions. Focused on optimization techniques and practical software engineering concepts.

Learning Management System *(C#)*

- Partner project using LINQ queries to pull data from a remote database and populate a UI to display course info for Students, Professors and Administrators. Implementation used the MVC model.

EXPERIENCE

Navitaire, Salt Lake City, UT — *Software Engineer Intern*
August 2021 - Present

- Work with open source tools to automate container deployment and orchestration
- Building in-house tools to assist engineers within the company

University of Utah, Salt Lake City, UT — *Flow Cytometry Laboratory Technologist*
August 2018 - April 2021

- Assisted researchers in Flow Cytometry Sorting and Data acquisition
- Maintained and followed troubleshooting procedures for Flow Cytometers