

# Alexander Nelson

Orem UT

(801) 372-2835

alexander.nelson24@gmail.com

## SKILLS AND PROGRAMMING LANGUAGES

- Java, Python, C#, C++, SQL, MySQL, JavaScript
- Experience with API's
- Background in Finance (Accounting)
- Excellent Self-Starter and Quick Learner

## EDUCATION

### Masters of Software Development

University of Utah, DECEMBER 2020, 4.0 GPA

**Relevant Courses:** Data Structures & Algorithms, Data Analytics & Visualization (Intro to ML), Computer Arch & Operating Systems, Networks & Security, Software Engineering, Database Systems and Applications

### Bachelor of Science in ACCOUNTING

Utah Valley University, DECEMBER 2015, Outstanding Merit Dean's Scholarship Recipient

## RELEVANT ACADEMIC PROJECTS

### Capstone Project (Aug. 2020 – Present)

- Engineering around Machine Learning (AWS and API's), Mentor: Dr. Varun Shankar

### Backend Database for Learning Management System

- Built MySQL Database complete with controllers using LINQ for frontend (C#)

### Handwritten Digits Classification

- Classified handwritten digits with both an SVM and KNN model (Python)

### Spatial Partitioning Data Structures

- Built QuadTree, KDTree, and Bucketing structures for multi-dimensional data (Dlang)

### Web-scraping HackerNews

- Used Logistic Regression to classify if an article was on the front page (Python)

### Fully Functioning Chat Server

- Deployed in a container using Docker (JavaScript, HTML, CSS, Java)

## PERSONAL PROJECTS

### Automatic E-Mail Generator for Basketball Stats

- Build automatic basketball stat e-mail system using stats obtained through web scraping (Python)

### SFML Snake

- Re-created classic Snake game (C++)

### International Space Station API project

- Connected to ISS API to display when station is overhead and information of astronauts (Python)

## EMPLOYMENT

### Domo, American Fork, Utah

**CORPORATE GENERAL LEDGER ACCOUNTANT**, OCT 2018-DEC 2019

- Integrated NetSuite Database into Domo software (SQL)

### Unicity International, Orem, Utah

**INTERNATIONAL STAFF ACCOUNTANT**, JAN 2016-OCT 2018

- Improved process speed and accuracy by self-teaching and using VBA, SQL, and Navision Dataports