

# Jacob Shepherd

Seeking employment in software engineering and development

## Work Experience

### Avalara Inc, Greenbay WI- *Programming & QA Intern – Current*

In this role I worked with C# as well as a large SQL database. I helped the team to update tax return generation code in C# as well as writing SQL scripts to keep the database up to date. I also helped to QA changes made by other members of the team. I have held this role for over a year.

### St. Norbert College ITS, DePere WI- *Hardware Tech*

In this role I help to diagnose and fix student and staff hardware issues as well as prep computers and other tech for distribution to staff members. This job also allows me to further develop my customer service skills.

### Bowes Creek Country Club, Elgin IL- *Grounds Crew*

In this position I often led small teams of coworkers on projects assigned by our supervisor. I was forced to adapt quickly due to the ever-changing nature of the job and also learned the value of mental fortitude and hard work as the labor was often physical and I worked 40+ hour weeks.

## Education

### St. Norbert College, DePere WI- *BS Computer Science, BA Philosophy*

GPA ~ 3.6

Anticipated Graduation – May 2023

## Classes taken

### Event Programing

### Databases

### Programing Languages

### Game Programing

### Abstract Data Structures

### Computer Org. and Assembly Language

### Operating Systems

### Theory of Computation

### Networking

## Programing Projects

Created a client server multiplayer train game in Unity which simulates the way that an operating system might prevent and handle deadlock and starvation.

Created a model database run on a Linux server, populated it with relevant data, managed the data, and queried on the database.

Created a Connect Four android app which supported a SQLite leaderboard, two player pass and play mode, and single player vs AI. This project was completed in Android Studio using Java and XML.

Created a third person shooter where the player attempts to infect NPC's without being detected. This project was completed in Unreal Engine 4.

Created a website using Flask (a Python extension) to manage a hypothetical concert venue.

Created a program to read files of words, store the words in a hash table for fast lookup, link the words using a graph to words that had one letter differences, and finally wrote a search function to find the shortest path through the graph between two words chosen by the user.

Phone: (847)-452-4631

Email: jacob.shepherd@snc.edu  
linkedin.com/in/jacob-c-shepherd

## Skills

Java

C++

C

C#

Python

SQL

Android Studio

Visual Studio

Unreal Engine 4

Unity

HTML & CSS

XML

## Awards

Dean's List – 7 semesters

SNC Presidential Scholarship –  
Recipient

## Student Org. Experience

Phi Delta Theta WI Epsilon –  
**President**

Phi Delta Theta WI Epsilon –  
**Historian**

Computer Science Club – **Member**

Philosophy Club – **Member**