

Bjørn Mathisen

Software Engineer & Data Analyst

Education

Bachelor of Science in Computer Science

Principia College, 2014-2018

A+ (PLUS) Certified Technician 2020

Fire Science & EMT License

Elgin Community College, 2012-2014

Work Experience

Service Technician Nov 2019 – Present **Micro Center**

- Perform maintenance and provided customer support while diagnosing problems to determine the requirements for repair.
- Integrated with in house software to maintain records of repairs.

Data Analyst – Contract Jan 2019 - Jul 2019 **Zerma**

- Wrote a Python web crawler to generate a database of 12 thousand contacts from client website visitors and contacts.
- Created a relational database in SQL to manage this data set and created queries to allow specific search criteria.
- Used Microsoft Access to allow non-technical participants to pull from an SQL database for job function and improved workflow.

Field Engineer - Contract Jan 2019 - Jul 2019 **Zerma**

- Traveled to automobile factories and installed large granulators and shredders (1-20-ton industrial machines).
- Wired and debugged complex electrical panels according to wiring schematics.
- Dealt with plant managers and other crew leaders to facilitate the installation and moving of machinery.

3D Printer Teaching Assistant 2017-2018 **Principia**

- Wrote technical documents facilitating the operation various modeling programs such as Blender, AutoCAD and FreeCAD.
- Modeled objects to be 3D printed on custom build JellyBox printers with 0.01mm tolerances.

Contact Me



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Activities and Projects

EPROM Programmer, Project Medusa

- Bridged the gap between the software and hardware teams to create a fully functional 8-bit computer using integrated circuits.
- Exercised exhaustive debugging, teamwork, and organizational skills while helping both teams communicate.
- Programmed EPROMs with OP code (machine level).

Modula-2 Compiler

- Developed compiler in C# to compile Modula-2 code into MASM32 assembly.

Python Server/Client Chat App - Scrum

- Developed a UTC server to handle connections from a GUI client sending multiple user messages back and forth.

Budgeting Application - DevOps

- Wrote a C# & .Net application to handle the budgets of multiple users using a SQL database.
- Used automated testing to handle quality control.

Effigy Library – C++ Solo Project

- A C++ client with WxWidgets for GUI application combined with a custom C++ API to integrate with the socket server to facilitate transfer of data.
- Libraries: wxWidget, CPP REST sdk

C++ CUDA Terrain Generation Tool

Automated Testing in Python & Java

Blender and 3D Modeler in AutoCAD

Integrated databases and cloud software with digital ocean and AWS

Programming Languages/Tools

Primary Language: C#, .Net, Python, C++

Familiar with: C, SQL, Java, ASP.Net, Assembly, XML, Automated Testing,

Some Familiarity: LISP, Ruby on Rails, HTML/CSS, MongoDB, Kotlin, PHP, CSS