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**
- Performed maintenance and provided customer support while diagnosing problems to determine the requirements for repair
- Integrated with in-house software to maintain records of repairs
- Provided premium customer service with a full range of technical troubleshooting services for their workstations and custom-built

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 a 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
- 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 of various modeling programs such as Blender, AutoCAD and FreeCAD
- Modeled objects to be 3D printed on custom built 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 opcodes (machine level)

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

Python Server/Client Chat App
- Developed a UTC server to handle connections from a GUI client sending multiple user messages back and forth

Budgeting Application
- Wrote a C# & .Net application to handle the budgets of multiple users using a SQL database
- Used NUnit 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