**Bjørn Mathisen**

Software Engineer & Data Analyst

**Activities and Projects**

**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

**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)

**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 computers

**Modula-2 Compiler**

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

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**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

**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

**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

**Integrated databases and cloud software with digital ocean and AWS**

**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

**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

**Python Server/Client Chat App**

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

**C++ CUDA Terrain Generation Tool**

**Automated Testing in Python & Java**

**Blender and 3D Modeler in AutoCAD**

**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

**Programming Languages/Tools**

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**Contact Me**