

Murray LaHood-Burns

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Currently Seeking...

employment as a **junior software engineer**.

What I love most about computer science is **bringing new ideas to life**. I would like to **invest my time and work** in a company that shares that passion. Ideally, a place where employees look forward to seeing each other everyday, and can **take pride in their projects**.



Software Engineer Intern

Innovative Systems LLC - Rapid City, SD | *May 2016 - May 2017*

At Innovative, I learned an incredible amount about software engineering, and am very thankful for my year there.

From the first week, I began coding under an **agile scrum** environment. The other new interns and I worked on a practice project, where we enhanced our skills with **C#**, **git**, and **unit testing**. We regularly presented our work in **code reviews**.

After a month, I was **writing production level code** for **Live Chat**. Starting in the fall, the other senior interns and I worked as an independent team developing a **cross-platform** version of **ManageMyTVs** for our **senior design project**.

References available upon request.

Radon Mitigation Technician

Earthorizons, Inc. - Black Hawk, SD | *May 2011 - Present*

I started working for my father's **radon mitigation** and **earthwork** business, Earthorizons, halfway through high school. My work mainly involved assisting in the installation of radon mitigation systems, but I also worked on **water & sewer**, **construction**, **land reclamation**, and **excavation** projects. In addition, I have gained **forestry** experience working on the family tree farm.



B.S. Computer Science

South Dakota School of Mines & Technology | *Graduated May 2017*

At Mines, I took my work seriously and graduated on time with a **3.66 GPA**. In addition, I involved myself in entrepreneurial activities such as **Engineers Make Great Entrepreneurs**, where I was one of five recognized for my participation, speech, and essay. I participated in my community, attending a **Black Hills Startup Weekend** as a developer where I worked with local students and community members to create **Local Yokel**.



earthhorizons.com

Business website for Earthhorizons Inc. I am especially proud of the **modern navigation** bar I implemented using **react-headroom** and **react-motion-drawer**. The website uses a **React** frontend and a **Express** server for the contact us feature. By completing this website, I have:

- **rapidly released** a website after only two days of development
- increased my skill with **React** and **Express**
- created another **reusable component** to improve development for other sites

blackhillsweaving.com

Business website for Black Hills Weaving by Mary LaHood. I implemented a "contact me" feature using **nodemailer** and **Express**, while the client is rendered using **React**. In creating this I:

- built a fullstack website using **React** and **Express**
- gained experience developing to the needs of a **product owner**
- become familiar with the services provided by **Heroku** and **CloudFlare**

Memory Book

MEAN stack webapp project I started to learn **javascript web development**. In addition to the essentials of MEAN development, by working on this project I have learned:

- **automated unit testing** using **mocha**
- use of **fixtures** for testing with a filled database
- sound **logging** practices using **winston**

Local Yokel

Local Yokel is a meal kit service app, similar to Blue Apron and Hello Fresh, with a focus on locally sourced ingredients. The app was **made in two days** as a **minimum viable product** for my team at Black Hills Startup Weekend, Spearfish 2017. By participating at this event and writing Local Yokel, I gained valuable experience in:

- **rapid UI prototyping** and development
- **collaboration** between developers, designers, and product owners
- **teamwork** under a tight deadline

ManageMyTVs

ManageMyTVs is my largest involvement in a software project. It is an IPTV controller my **senior design** team rewrote from an **existing iOS app**, to a **cross-platform Xamarin app**. My core responsibilities included **communication** with the backend, and **test automation**. Through this experience, I gained a strong understanding of:

- **C#, XAML**, and the **.NET** framework
- structuring apps in a **MVVM** pattern
- **dependency injection**, separating interface and implementation



Hobbies

In addition to software engineer, I enjoy being a **rock climber**, **mountain biker**, **woodworker**, **book nerd**, **movie buff**, **game geek**, and **podcast junkie**.

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