Cailie Carlile

Software Engineer in Columbia, MO

Professional engineer looking to apply over 7 years of technical, detail-oriented experience in the public sector to a programming position where I can continue to improve my community.

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GITHUB http://github.com/CailieAC | **LINKEDIN** linkedin.com/in/CailieCarlile

EDUCATION

LaunchCode, CoderGirl Programming Course — 2019

Missouri S&T, B.S. Environmental Engineering — 2011

  Professional Engineer (Environmental) - Missouri License #2017000281

PROJECT EXPERIENCE

GardenPlan — Social Garden Planning Web App

- Designed a CRUD web app for garden planning using ASP.NET MVC, Entity Framework, HTML / CSS, Bootstrap, and Javascript
- App allows users to save their garden plans and look up information on plants.

TravelHive Beta Website — Travel Planning SignUp Website

- travelhivebeta.com
- Developed a static beta signup page for a new travel planning app using HTML and CSS..

SKILLS

PROGRAMMING LANGUAGES

- **C#**
- **HTML5/CSS3**

FRAMEWORKS

- **.NET**
- **Entity Framework**

DATABASES

- **SQL Server**

TOOLS

- **VisualStudio**
- **GIMP**

WORK EXPERIENCE

Environmental Engineer — MO DNR, Jefferson City, MO - Mar 2012 - Present

- Water Protection Program - Wastewater Engineering Section
  - Reviewed engineering reports, plans, and technical specifications for wastewater treatment systems to ensure protection of public health and the environment.
  - Extracted and analyzed five years of engineering data from multiple databases to formalize a new process that reduced regulatory burden for small flow wastewater dischargers.
  - Conducted engineering analyses to determine economic efficiencies of wastewater treatment processes and support development of a cost estimation tool.
  - Communicated technical information to staff and members of the general public through in-person meetings, written communications, and PowerPoint presentations statewide.
- Hazardous Waste Program - Brownfields Voluntary Cleanup Program
  - Provided guidance and cleanup oversight for properties where the presence of hazardous substances complicates expansion, redevelopment, or reuse.
  - Interpreted analytical testing data to determine status of soil and groundwater cleanup efforts.
- Hazardous Waste Program - Groundwater and Corrective Action Unit
  - Verified adequacy and consistency of technical documents, such as facility investigations and groundwater monitoring reports, with applicable permitting and corrective action regulations.

Greater Research Opportunities (GRO) Fellowship — EPA, Corvallis, OR - May 2011 - Aug 2011

- Collected and processed tree core samples and measured ring widths using WinDENDRO™ software.
- Drafted technical language for standard operating procedure used to train staff on WinDENDRO™.
- Cleaned and organized data to prepare it for analysis by statistician.