

# JAMES M. MURPHY

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I'm a recent graduate of the EvolveU Full-Stack Developer program, and I love web dev! I enjoy learning, finding elegant solutions, and designing clean UI. I like working in small, agile teams, helping each other do our best.

## HIGHLIGHTS

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- 1.4 years of full-time coding experience
- Proven Javascript, React, Node.js, NoSQL, and Tailwind skills
- Curious and creative, with 22 US patents to prove it
- Keen eye for detail and opportunities to improve

## CODING EXPERIENCE

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### Front-End Web Developer

Apr 2021 - Present

2.5-month contract to develop the 'Vaccine Hesitancy Guide' website for [Dr Myles Leslie's](#) team at U. Calgary. The alpha version will be hosted at [vhguide.ca](#) in late May 2021.

- Coding in React, Javascript, HTML/CSS, Tailwind, and (eventually) React Native
- Working closely with a professional web designer to produce a polished site
- Learned useContext hook and Composition to manage state and inheritance

### Full Stack Developer Bootcamp

EvolveU, Calgary, AB

Sep 2020 - Feb 2021

6-month project-based learning bootcamp. Projects included:

- [Resume website](#) — HTML, CSS and Tailwind
- 'SwarmShare'\* (capstone project): a '2½-dimensional' mindmap for sharing learning resources
  - Created with Javascript, the MERN stack (MongoDB, Express, React, Node.js), and Tailwind
  - Used hooks, listeners, modals, tooltips, 'currying', and numerous React libraries
  - Served as Scrum Master, helped guide the team's Agile process flow

— \* Hosting soon!

**Embedded Developer**                      The Delphi Group, Calgary, AB                      2013 – 2015  
6-month full-time coding project within a large Calgary-based energy company

- Created a detailed model of the New England renewable energy credit market, using Visual Basic for Excel. Validated this model against established commercial models.

## **OTHER EXPERIENCE (HIGHLIGHTS ONLY)**

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**Mechanical Engineer**                      Dynamic Air Shelters, Ltd., Calgary, AB                      2019

- Implemented and validated 2 numerical methods for calculating the strength of air-inflated beams.
- Managed a team of 7 to assemble load fixtures and perform load tests. Mentored a junior engineer.

**Research Engineer**                      Carbon Engineering (CE), Calgary, AB                      2015 – 2016

- Designed CE's fuel synthesis system. Built a detailed computer model of this system and wrote a feasibility assessment, resulting in CE being awarded \$3.75 million in funding.

**R&D Engineer**                      Seagate Technology, Longmont, CO                      1997 – 2004

- Invented and developed new hard drive technologies, such as piezoelectric suspension actuators. Three of these inventions are now used in millions of drives worldwide.

## **EDUCATION**

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**Masters of Science – Resources & Environment**                      U. British Columbia, [IRES](#)                      2009 – 2012

**Masters of Engineering – Mechanical Engineering**                      U. Colorado, Boulder                      1998 – 2001

- Completed studies while working full-time. Earned 'A's in all classes

**Bachelor of Engineering – Mechanical Engineering**                      U. Queensland, Australia                      Eons Ago

- Top student in Mech. Engineering, top 1% of UQ graduates, Best Thesis in Engineering faculty

## **PATENTS AND TRAINING**

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- 22 US Patents awarded. First inventor for 13 of these. e.g. USPTO # [6388842](#), [6157522](#)
- 'Brown Belt' in Six Sigma statistics

## KEY SKILLS MATRIX

(Super unbiased and mega-objective ;-)

Skill	Ability Level  ☆ = Minimal ☆☆☆ = Solid ☆☆☆☆☆ = Superb	Comments	Examples
HTML, CSS, Javascript, React	☆☆☆	Solid intermediate skills. Still learning advanced tricks (e.g. custom hooks)	Resume website, Capstone Project (aka 'SwarmShare')
Node.js, Express, Axios, MongoDB	☆☆½	Able to find and implement relevant code; I may ask for help occasionally	Capstone Project
TailwindCSS	☆☆☆½	I'm efficient at using Tailwind for custom formatting	Resume website, Capstone Project
Version Control (Git)	☆☆☆	I commit often and deal with merge conflicts ASAP	Used Git and Github for Projects 2 and 3
Learning	☆☆☆☆	I love learning, I'm tenacious and I'm good at asking for help	Trained myself to get by as a chemical engineer in 6 weeks*
Communication	☆☆☆½	I'm a clear, frequent, proactive communicator	Initiated and led most meetings and message threads in Projects 2 & 3
Creativity	☆☆☆☆½	I'm great at discerning real needs and finding creative, practical solutions	I have 22 US patents, 3 of which are used in millions of products worldwide.

\* At Carbon Engineering (2015-2016)