Cody Griffith

Mathematical Research Scientist
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Career Objectives:

After about a decade of honing my applied mathematics, I have developed the tools, experience and programming knowledge to make myself useful to any field of analysis. I am a research scientist in mass spectrometry where I specialize in developing algorithms and apps for internal use as well as for customer- grade products. My hope is to continue to broaden my skill set and work towards making a positive impact both at the industry/research level but also towards social good.

Work Experience:

Research Scientist, ***908 Devices***
December 2018– Present

- Wrote succinct and clean code in Python and Matlab, cross-communicated between the two when necessary
- Spearheaded business UI/UX development by working with customers directly
- Acted as algorithm lead for user-facing proteomics software
- Worked in scrum-based software development cycles

Research Scientist, **Data Science for Social Good (UBC)**
May 2018 - September 2018

- Lead development of an R-Shiny application to view and analyze spatial/census data
- Collaborated with teams at Microsoft Vancouver and the city of Surrey
- Built a repository for future development and later years of DSSG to expand upon

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Education:

2016-2018 **University of British Columbia**
Master of Science in Applied Mathematics
Thesis- *Non-Smooth Dynamics in the Stommel Model for Oceanic Circulation*

2012-2016 **Metropolitan State University of Denver**
Bachelor of Science in Applied Mathematics

Academic Projects:

- Formed the basis of analysis on a two-dimensional dynamical system with strange bifurcating behavior.
- Partnered with Data Science for Social Good to create a central database and analysis platform for childhood vulnerabilities throughout the city of Surrey, British Columbia.
- Developed a method of analysis on a Dual-Capacity Stochastic Queue. Then, presented this work at the 2015 MAA regional conference in Colorado Springs as well as at the Undergraduate Research Conference in Denver.
- Partnered with Groundwork Denver for spatial & temporal analysis of E. Coli models in a local river

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