Ryan Emberling

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EDUCATION

Carnegie Mellon University - *Pittsburgh PA*
- Masters in Educational Technology and Learning Science - *Expected Graduation August 2019*

Trinity College - *Hartford, CT*
- BS in Mathematics and Philosophy
- Presidential Fellow for Philosophy, Phi Beta Kappa & Pi Mu Epsilon Honors Societies

WORK EXPERIENCE

Tutor and Educational Therapist, Freudigman & Billings Educational Solutions (Westport, CT)
Summer 2017-Summer 2018 and Summer 2013-Summer 2015

- Tutored math, physics, programming, and test-preparation
- Profiled students' learning to tailor teaching style to their needs
- Worked with students to remediate memory systems and depth of processing
- Designed and ran week-long introductory programming course in python

- Created reusable course materials for teaching specific content using LaTeX
- Improved data management by adding calculated fields to "Podio" platform, in JS
- Developed analytical tools for aggregating and analyzing test performance data with VBA in Excel

Business Relations Officer, Leader Biomedical (Amsterdam, Netherlands)
Fall 2015-Summer 2017

- Project manager on Design and Development of NovoMem membrane
- Developed QMS procedures and instructions for every department
- Performed trainings on QMS processes

- Created custom SQL queries and reports
- Digitized generation of QMS records (Non-Conformities, CAPAs)
- Built and maintained 3 multi-file database systems in Excel, with VBA for 2 departments

SKILLS

- **Programming: Web Development**
  HTML, CSS, Javascript, node.js, sails.js, angular, and angularJS
- **Programming: Data Analysis**
  Python with pandas, sklearn, and jupyter notebooks, VBA in Excel

Personal Projects

- Cuttle: A 2-player card game built for the web with node.js (using sails) and angularJS
- MSD Calculator: Analyzes and visualizes particle video data in using python anaconda