

Eric Sunderland

Entry-level Software Engineer
7872 Golden Pine Circle
Severn, MD 21144

evs37@cornell.edu

Cell: (410)-349-7238

EDUCATION

Cornell University, Ithaca, NY
B.S. Computer Science, Minor in Operations Research, 2021
College of Engineering
GPA 3.403
Awards: Engineering Dean's List (2017,2021)

RELATED COURSEWORK

Functional Programming, Systems Programming, Object Oriented Programming and Data Structures, Discrete Structures, Operating Systems, Algorithms, Foundations of AI, Formal Verification, Optimization I and II, Engineering Probability and Statistics I and II, Practical Tools for Operations Research

PROFESSIONAL EXPERIENCE

Analyst, Software Development June 2021- Present
Logistics Management Institute (LMI) Tysons, VA

- Leveraged C#, ASP.NET MVC framework, SQL, and JavaScript to maintain, update, and improve our client-facing system of applications related to the analysis of Medicare Advantage plan and bid data for CMS.

Data Engineering Co-Op August 2019- August 2020
Logistics Management Institute (LMI) Tysons, VA

- Developed RShiny application to improve interface and process for reviewal of insurance plan deficiencies for CCIIO.
- Transitioned VBA macros to Python scripts utilized in preforming analysis and generating reports on Medicare Advantage (MA) plan and bid data for CMS.
- Introduced a detailed process for the utilization of the pandas library to work with, manipulate, and analyze SAS datasets used in MA bid information analysis for future team members without SAS licenses.
- Researched, developed, and improved processes to optimize DLA's engagement with and utilization of technical data.

PROGRAMMING EXPERIENCE/ PROJECT WORK

- Experienced in: Java, Python, OCaml, R, Word, Excel, C, C#, SQL, PostgreSQL, Stata, HTML, AMPL, Unreal Engine 4, Harmony, JavaScript
- Developed a web-app designed to recommend character builds in Dungeons and Dragons based on user input as a team (Python + PostgreSQL) (Found at: <http://charcrafter.herokuapp.com>)
- Created a functioning game of Go to be played against another human or an AI as a team (OCaml)
- Developed a primitive version of MS Paint using GUIs (Java)
- Designed a fully functioning RISC-V pipelined processor (Logisim)

PUBLICATIONS

- *Trade Security Controls Trade Security Control Assessment Process Capability*, LMI Report STP9L01, M. Bosack, B. Kuyper, C. Montemayor, E. Oettl, R. Salley, E. Sunderland, J. Stephenson, and A. Walters, April 2020.