Lucas Frey

Phone (971) 312-7266
Email lcsfrey@gmail.com
Linkedin linkedin.com/in/lucas-frey
Github github.com/lcsfrey

EDUCATION

Oregon State University Corvallis, OR 2016 – 2019 **Major GPA** 3.6
(Currently Attending) **Overall GPA** 3.5
Major Computer Science Applied in Artificial Intelligence **Credits** 124/180
Minor Mathematics

Areas of Study:

- **Analysis of Algorithms**
  - Implemented algorithms in C++ to approximate the Traveling Salesman Problem. Outperformed entire class in 7 out of 7 competition test cases.
- **Data Structures**
  - Implemented and analyzed the performance of linked lists, stacks, queues, trees, and hash maps
- **Introduction to Computer Networks**
- **Linear Algebra**

Personal Projects:

- **TSP Graph Reader** built using Python and OpenCV
  - Finds dots on a paper and sends dots to a C++ program which approximates the Traveling Salesman Problem, returning the drawing the resulting path on the screen
- **String Trie** built using C++
  - Stores large amounts of words with constant time access to any element
- **Security Camera** built using Python and OpenCV
  - Motion sensitive camera that highlight movement in frame. Can write/record video as well

Chemeketa Community College Salem, OR 2012 – 2013, 2015 – 2016 **Overall GPA** 3.5

West Salem High School Salem, OR 2008 – 2012

Extra-Curricular Activities:

Robotics Club 2010 – 2012

- Team leader of a group of 6 people
- Work on yearlong projects to develop robots to compete in the FIRST Tech Challenge
- Went through cycles of design, development, and testing, documenting our progress along the way
- Developed autonomous control systems for robots to complete various tasks utilizing touch, light, IR and rotation sensors. Built in the language Not Quite C.
- Volunteered at local middle school teaching kids how to build/program Lego NXT robots

AWARDS

- **President's List** (2 terms)
- **Dean's List** (3 terms)
- **Honor Roll** (4 terms)
- **Recipient of Capital Manor's Foundation Scholarship** (2016)
- FIRST Tech Challenge state finalists and two time regional champions

SKILLS

- **Proficient with:** C++, Python
- **Knowledge of:** HTML/CSS
- **Tools/Frameworks used:** Git, Qt, Visual Studio, OpenCV
- Exceptional at finding efficient to solutions to complex problems
- Comfortable programming in Windows and Unix environments

EXPERIENCE

Capital Manor Retirement Community

Dishwasher/Prep Cook June 2013 – Present

- Worked in multiple team environments servicing hundreds of residents a day