

Crystal Fletcher

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Education

Michigan Technological University Houghton, MI
B.S. in Software Engineering, Departmental GPA 3.13

Expected May 2020

Selected Coursework

In Progress Concurrent Programming, Algorithms, & Husky Game Development
Completed Programming at the HW/SW Interface, Intro to Database Systems, Team Software Project, Formal Models of Computation, & Computer Organization

Husky Game Development Enterprise

The mission of Husky Game Development is to design and develop games for business, education, and fun. I acted as one of the multiple software developers on my scrum team while developing a 2D platforming game. The game we have been working on, Pirate King: Retravengence, is currently in an alpha state, and we are planning to complete it by Spring, 2020.

Work Experience

Vertanen Research, VelociTap Text Auto-Correction Houghton, MI January 2017 - Present

- Development of experimental applications in text auto-correction and input stimuli.
- Use of Application Programming Interface (API) in development of Smartwatch testing app.
- Development within the research team accomplished both independently and as group programming.

MTU Computer Science Learning Center Coach Houghton, MI September 2017 - Present

- I tutor students on logic and problem solving skills relating to programming & discrete math.

Target Headquarters Internship Minneapolis, MN Summer of 2019

Worked on backend application for a Payment Settlement application. Program reads input from a database for new entries related to disputes, makes a REST endpoint call over to the Point-Of-Sale team to pull receipt data as JSON. From there, the application generated a PDF containing the contents of the receipt, backed it up to Amazon AWS, and SFTPed the file to Bank of America Merchant Services.

Languages and Technologies

Most Experienced: Java (Spring, SpringBoot, Gradle), JSON, C/C++,
HTML5/CSS3/XHTML, Git & GitHub

Some Familiarity: Kibana, Grifana, Amazon AWS (S3), Rust, JavaScript (Node.js), MySQL,
Android, Assembly, C#, & L^AT_EX

Side Projects

Personal Website: SNReloaded.stream

Self Hosted website with most everything hand coded. SSL certificate included for secure connection.
Source: github.com/CrystalSpore/SNReloaded.stream

ATOM (A Tiny Object Modeler)

Project for the Team Software Project class. Source: github.com/TSP-Molecule/ATOM

Extracurricular Activities

FIRST Robotics Team 2619

October 2012 - August 2016

Active member and programming lead, and team qualified for MI State & Worlds competition all 4 years