Charles C. Stevenson

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Github - https://github.com/Diatomo

Education

Bachelor of Arts: **Computer & Information Science**
Related Field: **Art & Technology**
The Ohio State University, Columbus, Ohio — Graduated: *Spring 2017*

Bachelor of Arts: **Biochemistry**
Minor: **Molecular Biology**
Miami University, Oxford, Ohio — Graduated: *Winter 2012*

Experience

Exhibit Engineer

Roto, Columbus, Ohio — Aug. '17 - Dec. '18

- *Prototype, develop and test science museum exhibits*
- *Collaborate with designers, engineers, and project managers*
- *Program C++ and python exhibits utilizing finite state machines and web frameworks*
- *Integrate high voltage and low voltage for both digital and analog electronics*
- *Built, documented, and specified equipment for over fifty electromechanical systems*

Junior Software Engineer

aBioBot Inc., Columbus, Ohio — Nov. '16 - May.'17

- *Developed and tested a liquid transfer robot for professional laboratories*
- *Designed and Programmed an API to rapidly prototype protocols*
- *Implemented RT-PCR in a professional laboratory*
- *Collaborated with UI and computer vision professionals*

Projects

Cycle to Power

Work Project

https://github.com/Diatomo/Roto_Private/tree/master/Cycle_To_Power_MotherBox

- *Designed I2C and serial communication system with timed events*
- *Wired together relays and power boxes that controlled displays and motors*
- *Programmed object oriented C++ with vim and the bourne-again shell*
- *Implemented concurrent events including led animations, encoders and motors*
- *Wrote custom low-level library for circuit board hardware*

Differential Gene Mutation Classifier

School Project

https://github.com/Diatomo/School/tree/master/Bioinformatics/group_project

- *Designed a bayesian classification algorithm to identify prognosis of cancer patients*
- *Learned about interpreting results of complex gene networks*
- *Compared a dataset from TCGA and one from The Ohio State University*
- *Presented potential mutations that affected prognosis*

Midi Pad

Personal Project

https://github.com/Diatomo/SugarCube/tree/master/src

- *Designed custom PCB hardware*
- *Prototyped on a breadboard layout*
- *Programmed C++ and a music programming language called pure data*
- *Implemented a highly modular object oriented design*

Honors:

- **Dean's List**
  Fall 2010, 2015, 2016
- **USS Research Scholars**
  June 2011
- **Art & Tech Show**
  Dec.2015 & Dec.2016

Technical Skills:

- Python (advanced)
- C++ (advanced)
- Vim (advanced)
- Bash (advanced)
- FSM (advanced)
- Git (intermed)
- HTML/CSS (intermed)
- Javascript (intermed)
- Pure Data (intermed)
- Java/C# (basic)
- Maya/Blender (basic)
- SQL/Neo4j (basic)

Projects List:

- Midi Pad
- Media Fetcher
- Interpreter
- Scrabbler
- Bayesian Classification
- Synthesizers
- Processing Gravity Sim.
- Super Mario Bros Clone
- Differential gene analysis
- Finite State Machines
- Developed Flask Web App.

Distinguished Courses:

- Data Mining
- Bioinformatics
- Biodiversity
- Organic Chemistry
- Robotics
- Evolution
- Biochemistry
- Genetics
- Principles of Programming
- 3D Animation and Modeling
- Adv. Artificial Intelligence