

Christopher K. Shoemaker

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EDUCATION

Carleton College

Northfield, MN

- B.A. in Computer Science received June 2017
- Cumulative GPA: 3.45

WORK EXPERIENCE

Software Engineering Intern

June 2016 – September 2016

AuSIM Incorporated

Mountain View, CA

- Enhanced an Arduino-powered gantry performing measurement and localization testing for audio perception research by implementing a console application in C++ to display its status and operation
- Participated in reviews on Arduino and C++ code

Assistant Hardware Asset Manager

September 2014 – June 2017

Carleton College Information Technology Services

Northfield, MN

- Facilitated transition of faculty and staff to new workstations through system image installation, customization, and deployment of new machines
- Coordinated hardware replacements by phone with service representatives at Apple, Dell, and Lenovo
- Provided hardware and software issue resolution to faculty and staff while on standby

TECHNICAL SKILLS

Programming Languages and Software

- Experienced in Python, Java, C#
- Familiar with C++, HTML/CSS, JavaScript (jQuery, React), PostgreSQL, Unity

Coursework

- Software Design, Algorithms, Programming Language Implementation/Design, Audio Programming, Computer Security

TECHNICAL PROJECTS

Prairie: A Framework for Interactive Historical Experiences (C#), [github.com/DigitalCarleton/Prairie]

- Senior thesis project for the Computer Science major at Carleton College, to be further enhanced and integrated by future academic researchers and thesis project groups
- In collaboration with a small team, developed an API from scratch enabling non-programmers to easily create interactive adventure games with Unity using prefabricated 3D models
- Designed and implemented editor UI extensions to improve user accessibility in creating games with Prairie

Scheme Interpreter (C), [github.com/carleton251-s16/eager_bird-interpreter]

- A tool for parsing Scheme code in the form of .txt files and evaluating them as C programs
- Implemented and tested nearly all the functions of the interpreter to ensure consistency and compatibility

UN Environmental Statistics (HTML/CSS, JavaScript, Python, PostgreSQL)

- A web application comparing national environmental statistics using public datasets hosted on PostgreSQL databases
- Implemented and tested front-end visualization and database query functionality

LEADERSHIP EXPERIENCE

Co-President

September 2014 – June 2017

Carleton College Acapella Cello Ensemble (Just Cellin')

Northfield, MN

- Composed arrangements of popular music for an ensemble of 10 or more cellos
- Promoted and performed concerts at Carleton, drawing audiences of more than 50 people per event

Math, Geography and Reading Tutor

September 2013 – March 2014

Northfield Reads and Counts

Northfield, MN

- Tutored algebra and geography for classes of up to 30 middle school students
- Implemented lesson plans to develop reading skills in small groups of 5 elementary school students

OTHER SKILLS

- French (advanced proficiency), German (working proficiency)