

Christopher Shoemaker

chriskimshoemaker@gmail.com | (612) 323-1480 | github.com/shoemakerc

EDUCATION

Carleton College

Northfield, MN

- Ranked #7 among liberal arts colleges in the U.S. (National Liberal Arts Colleges Rankings, *U.S. News & World Report*)
- B.A. in Computer Science received June 2017
- GPA: 3.45

EXPERIENCE

Software Engineering Intern

June 2016 – September 2016

AuSIM Incorporated

Mountain View, CA

- Implemented a framework in C++ to enhance the safety system of an Arduino-powered gantry performing localization testing for audio perception research
- Participated in reviews on Arduino and C++ code

Assistant Hardware Asset Manager

September 2014 – June 2017

Carleton College Information Technology Services

Northfield, MN

- Facilitated setup and maintenance of new workstations for up to 15 faculty and staff members per month through system image installation, customization, and deployment
- Coordinated hardware replacements by phone with service representatives at Apple, Dell, and Lenovo
- Provided hardware and software troubleshooting and basic desktop support for faculty and staff while on standby

PROJECTS

Prairie (Senior Capstone Project) (C#, Unity), github.com/DigitalCarleton/Prairie

- Developed a framework from scratch in collaboration with a small team enabling historians with no coding experience to create interactive adventure games with Unity using prefabricated 3D models
- Implemented editor UI extensions to improve accessibility in creating games with Prairie
- Assembled the foundation of a product to be further enhanced and integrated by future researchers and project groups

MIDI Looper (C++, Qt), github.com/shoemakerc/qt-looper

- Designed a digital sampler to record and play back MIDI tracks using APIs for real-time input with standard MIDI devices

Scheme Interpreter (C)

- A tool for parsing Scheme code and evaluating them as C programs
- Implemented and tested all 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 client-side appearance and database query functionality

SKILLS

Programming Languages and Software

- Proficient in Python, Java, C#
- Experience with C, C++, CSS, HTML, JavaScript, PostgreSQL, Qt, Scheme, Unity

Coursework

- Software Design, Data Structures, Algorithms, Programming Language Implementation/Design, Audio Programming

LEADERSHIP

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