

Christopher Shoemaker

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

EDUCATION

Carleton College

Northfield, MN

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

Scheme Interpreter (C), github.com/shoemakerc/scheme-interpreter

- Built an application for parsing and evaluating Scheme code and running them as C programs
- Implemented and tested all functions of the interpreter to ensure the ability to handle nearly all procedures, variable bindings, and control/object operations in Scheme

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

- Built a web application with a small team comparing national environmental statistics using public datasets
- Implemented front-end appearance and database query functionality

SKILLS

Programming Languages

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

Frameworks and Software

- Experience with Node.js, PostgreSQL, Qt, React, Unity

LEADERSHIP

Co-President

September 2014 – June 2017

Carleton College Acapella Cello Ensemble (Just Cellin')

- 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

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