

Robin Cooper

rcooper@alumni.rose-hulman.edu

(502) 472-9882

GitHub: cooperra

Website: cooperra.com

Education

Bachelor of Science in Software Engineering, May 2014

Domain Track: Artificial Intelligence and Security

Rose-Hulman Institute of Technology, Terre Haute, IN

GPA: 3.21

Skills

Computer Programming

- Functional, Object-Oriented
- Preferred languages: ♥Rust♥, Python, Ruby, Java, C#, JavaScript, SQL, HTML/CSS, C, C++, Bash script, Lisp-like languages
- Web development (front-end and back-end, networking, REST)
- Parallel computing (MPI and pthreads)

Software Engineering and Design Concepts

- Project Management: Agile, Scheduling, Estimation, Risk Analysis
- Requirements Collection, Usability
- Test-Driven Development, Unit Testing, Stubs & Mocks
- Linux Dev-ops (Arch, Ubuntu)
- Databases (Relational & NoSQL): Design, Management, ETL, and Security
- Design Patterns & Refactoring: Gang of Four, SOLID, Cohesion/Coupling

Computer Science

- Swarm Intelligence, Machine Learning (TensorFlow)
- Theory of Computation

Tools

- Version Control: Git, SVN (comfortable with branching and merging)
- Testing: JUnit, Selenium, Cucumber, Quickcheck
- Static Analysis: FindBugs, JML, Alloy
- Misc: Docker, Emacs, Eclipse, SSH, Chrome DevTools, GDB

Experiences

Web Application Developer at Humana (via Brooksource)

Mar 14 - Sept 30, 2016

- Developed a platform that lets employees earn virtual "badges" by completing learning activities; leveraging Mozilla's OpenBadges spec and the TinCan API
- Delegated and planned work within a small Agile team
- Responsible for front-end UX using Bootstrap and Knockout.js
- Filled other roles as needed (bug triage, user feedback, back-end dev w/ C# and SQL Server, architecture, documentation, estimation, ...)

Ludum Dare 34 Game Jam - "Beanstalkers Extreme" (avail. on Google Play)

December 11-14, 2015

- Made a game from scratch in a single weekend as part of a global competition
- Coded it with a teammate in C# using the Unity3D engine
- Ranked 10th in theme and 14th in humor out of 2870 entries

Hackathon: Hack Kentucky Speed Hack (Winner)

November 8-9, 2014

- Over 24hrs in a group of four, configured a USB foam dart launcher to aim at faces detected on a webcam. See GitHub: musical-dart-defense-system
- Created launcher driver module and integrated it into teammates' face detection/recognition module. Used OpenCV, libusb, python, and other tools.

Senior Project: Rose-Hulman Alumni Perks App

Academic Year 2013-14

- Created Android & iOS mobile apps to manage local alumni discounts
- Created a Ruby on Rails server to manage and sync discount data
- Cooperated as a team of four for non-technical client

Activities

Louisville Country Dancers, Board Member

Summer 2016 - Present

Collegiate Cyber-Defense Competition

Academic Year 2013-14

Alpha Phi Omega – *Service Fraternity*

Academic Years 2011-14