

Justin M. Miron

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Education

University of Illinois at Urbana-Champaign

Bachelor of Science in **Computer Engineering**, May 2017

GPA: 3.62/4.0

Class Level: Junior
James Scholar Honors

Related Coursework:

Algorithms and Models of Comp.	CS 374	Computer Systems Engineering	ECE 391
Networks with Big Data	ECE 498	Parallel Programming	CS 484
Making Sense of Big Data	ECE 398	Embedded Systems	CS 431

Languages and Technologies:

Most experienced with C, C++, Python

Working knowledge of Java, x86 Assembly

Internships

Viasat Inc.

Software Engineering Intern

Carlsbad, CA
May 2015 – August 2015

- Expanded functionality of an ACU (Antenna Control Unit) simulator to support new antenna types and hardware changes to the ACU.
- Modified the ACU simulator code to support real-time modification of message data through a new graphical user interface.

Work Experience

CS 225 – Data Structures

Course Assistant

Urbana, IL
August 2015 - Present

- Work with students in lab sections and at personal office hours to ensure their understanding of the material.
- Assist in the development of tools to improve the quality of the course.

ENG 100 – Engineering Orientation

Engineering Learning Assistant

Champaign, IL
August 2015 – Present

- Instruct and facilitate an ENG 100 section of approximately 20 students.
- Provide direction and guidance for new engineering students adjusting to college and engineering.

Projects

The Game – Game | C, SDL

- Created a 2D platformer that supported rendering a constructed level, a panning view window, and bouncy ball physics.

Music Swap – Music Suggestion App | Java (Android), Node.js, mongoDB

- Built an Android application that utilized web sockets to communicate with a hosted Node.js server. Used a mongoDB database to store user data and connection information.

KoalaWM – X11 Window Manager | C, XCB Libraries

- Designed and implemented a window manager with support for dynamic tiling, multiple desktops, and window management through key bindings.

Campus Involvement

Open Ears – President

- Create a safe place for students to talk about their problems with people that are going to be there for them.
- Help the group figure out how we can best help people and raise awareness for mental health issues.

Habitat for Humanity, Badminton Club, Recreational Volleyball – Member