

# Jacob Miller

Software Engineer

630.605.3056

jgmiller2@illinois.edu

JMiller-2020.github.io

linkedin.com/in/jacob-miller-2020

## Skills

- Java (Advanced)
- Python (Advanced)
- C/C#/C++ (Advanced)
- Quick learner
- Data structures
- Chinese (Intermediate)
- Algorithms
- Windows/Mac/Linux
- HTML/CSS (Advanced)
- Android development
- Verilog (Intermediate)
- WebGL/GLSL
- User Research
- Teamwork
- Leadership
- Work well in fast-paced environments

## Honors & Achievements

**Home Info** - Realty MLS entry and formatting Android app. Published Feb 2019.

**Fork** - Recipe sharing Android app UI prototype (team project).

**Real-time spiking neural network** with Python/Numpy with speciating genetic algorithm.

**MechMania** - AI Hackathon: real-time strategy game controller.

**Dean's List** - University of Illinois College of Engineering

**James Scholar** - University of Illinois at Urbana-Champaign

Passionate Software Engineer graduating from a prestigious school in Dec 2019. Seeking to leverage my previous internship experience as a Software Engineering Intern. I will bring a commitment to maintainable, reusable code as well as a willingness to learn.

## Education

Bachelor of Science in Computer Science (Dec 2019) GPA 3.76/4.0  
**University of Illinois** at Urbana-Champaign, School of Engineering

### Relevant Coursework:

- CS 446: *Machine Learning* — exploring ML from a theoretical and practical perspective
- CS 225: *Data Structures* — using C++ and data structures to solve problems
- CS 374: *Algorithms & Models of Computation* — developing efficient and comprehensive algorithms

## Work Experience

Product Development Intern, **SAP Fieldglass** Naperville, IL, Jun 2018-Aug 2018

- Learned JSP on the fly to complete my first project in a month.
- Designed advanced search page to streamline data lookup.
- Designed interface for users to index data directly, lowering indexing time by minutes and maintaining style standards.
- Generated search suggester to ease process and improve hits.

Operations Intern/Developer, **Dealer Inspire** Naperville, IL, Jun 2017-Jan 2018

- Developed a machine learning solution that categorized tickets with a success rate of 70%.
- Visualized ticket histories to find break-points.
- Presented results to staff of over 300 people in presentations.

Senior Software Developer, **RealtyCool** Naperville, IL, May 2017-Jun 2017

- Designed, implemented, and published Android app for realtors called 'Home Info' to simplify MLS entry.
- Re-developed app in a fast-paced environment and published on time after losing all app data.
- Tested users, prototyped, and designed app iconography and user interface.
- Managed development cycle as well as publishing.
- Maintained modular code for potential quick-change requests.

Coach, **Naperville Gymnastics Club** Naperville, IL, Jan 2016-Jan 2017

- Created 'Ninja' curriculum still in use 3 years later.
- Ensured safety of 5-15 children in high-risk environments.
- Communicated broadly with beginner to advanced students, parents, and coaches.