Jacob Miller

Software Engineer
630.605.3056
jgmillr2@illinois.edu
JMiller-2020.github.io
linkedin.com/in/jacob-miller-2020

Skills

- C/C++
- Committed
- Communication skills
- Teamwork
- Hands-on experience
- Leadership
- Software design
- Data structures
- Maintainability
- Algorithms
- Linux/Unix Systems
- Code modularity
- Data reduction
- Self-managed
- Work well in fast-paced environment

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

Committed Software Engineer graduating from a prestigious school in one semester. Seeking to leverage my C++ knowledge in the Autopilot Software Engineering Internship at Tesla. I will bring communication skills as well as two years of hands-on internship experience.

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 241: System Programming — Low-level C programming on Linux/Unix systems
- 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

Senior Software Developer, **RealtyCool**   *Naperville, May 2017-Feb 2019*

- Personally designed, developed, and published Android app for realtors called 'Home Info' to simplify MLS entry.
- After losing development machine, re-developed app in a fast-paced environment and published on time.
- Tested, prototyped, and designed app iconography and interface.
- Freelance: Self-managed development cycle as well as publishing.
- Client was not a developer, so ensured code was maintainable, and modular for potential changes.

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

- No knowledge JSP upon hire, learned on the fly, and completed my first project in half the expected time.
- Advanced search service had no interface, developed page that maintained the company's styling standards.
- Users were having trouble indexing data, so I designed a new interface that allowed them to do it directly.
- Search bar had no auto-complete, so I analysed search data to develop suggestions to improve search hits.

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

- Support was overwhelmed by tickets, so I developed a machine learning solution that categorized tickets with a success rate of around 70%.
- Past tickets and 'Conversations' history was overwhelming, so I reduced data to maintain and visualize it.
- Presented the results of my testing to the whole 300 person staff to communicate the utility of the tools.

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

- Facility had no curriculum for 'Ninja' classes, so I developed one myself that is still used loosely 3 years later.
- Ensured safety of 5-15 children in high-risk environments.
- Communicated on multiple levels from beginners to advanced students, parents, and coaches.