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Jacob Miller
Software Development Engineer

Skills (by proficiency)

Languages
- JavaScript, TS, Python
- Java, C#
- C, C++
- Haskell
- SQL
- Verilog
- Prolog, Elixir, Ruby

Libraries
- React, AngularJS, Vue.js,
- Keras, Scikit-learn
- Pytorch, TensorFlow
- WebGL

Projects & Achievements

Home Info
Realty MLS entry and formatting Android app

Only One Cell
Platformer submitted to 48-hour game jam

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

Dean's List
University of Illinois College of Engineering

James Scholar
University of Illinois at Urbana- Champaign

President, CU Trickers
Martial arts/gymnastics club

President, Inline Insomniacs
Late night outdoor skating club

Improv Coach
Coach team of ten members for long-form performances

Professional Experience

Software Development Engineer **Amazon Inc**   *Seattle, WA, Apr 2020-Present*

Amazon JWO - Customer-Centric Hypothesis Generation Team   *Feb 2021-Present*
- Contributed to launch of *Counting*, which improved algorithm accuracy
- Performed On-Call responsibilities: resolving high-severity, time-sensitive issues and overseeing deployments to live
- Improved team documentation and logging to expidite debugging/root-causing

AWS - Identity and Access Management Console Team   *Apr 2020-Feb 2021*
- Migrate live frontend components from AngularJS to React
- Assisted in creation of new tool to simplify role permissions setting
- Maintained and expanded on internal REST API/full-stack development

Full-stack Development Intern, **Enodo Inc**   *Chicago, IL, Jun 2019-Aug 2019*
- Created, refactored, and maintained UI/UX components in Vue.js
- Updated backend and API in python to integrate big data into front-end
- Built front-end for loans tool, capturing a previously untapped workflow
- Worked on pipeline for user-trainable categorization and regression models
- Collaborated extensively using GitHub branches and pull-requests

Product Development Intern, **SAP Fieldglass**   *Naperville, IL, Jun 2018-Aug 2018*
- 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 machine learning solution, categorizing with a success rate of 70% (up from <10%, random categorization)
- Visualized ticket histories to find break-points
- Explained results to staff of over 300 people in presentations

Android Developer, **RealtyCool**   *Naperville, IL, May 2017-Jun 2017*
- Designed, implemented, and published Android app to simplify MLS entry for realtors called 'Home Info'
- Re-developed app and published on time after losing all app data
- Tested users, prototyped, and designed app iconography and user interface
- Managed development cycles as well as publishing and maintenance

Education

Bachelor of Science in Computer Science (Dec 2019)   *GPA 3.76/4.0*

University of Illinois at Urbana-Champaign, Grainger College of Engineering