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Jacob Miller

Software Development Engineer

Skills

Languages

JavaScript/TypeScript, Python, Java, C#, C/C++, and several others

Libraries

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

Projects

Home Info

Realty MLS entry and formatting Android app

GMTK Game Jam

48-hour game jam submissions
- Only One Cell
- Flaut of Control

Fork

Recipe-sharing Android app UI prototype (team project)

Honors & Leadership

Dean's List

University of Illinois
College of Engineering

James Scholar

University of Illinois at Urbana-Champaign

President, CU Trickers

Martial arts/acrobatics 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, 2020-2023

Amazon JWO - Customer-Centric Hypothesis Generation Team *Feb 2021-Jan 2023*

- Contribute to launch of *Counting*, which improved algorithm accuracy
- Perform On-Call responsibilities: triage, root cause, and resolve high-severity, time-sensitive issues and oversee deployments to live
- Implement several solutions to reduce complexity, latency, and cost: Camera Visibility Service integration, auto-scaling using aggregate metrics, internal debug portal for root causing algorithm errors
- Transition from cloud-based to on-premise computation to reduce bandwidth

AWS - Identity and Access Management Console Team

Apr 2020-Feb 2021

- Migrate live frontend components from AngularJS to React
- Assist in creation of new tool to simplify role permissions setting
- Maintain and expand internal REST API/full-stack development

Full-stack Development Intern, Enodo Inc

Chicago, IL, Summer 2019

- Create, refactor, and maintain UI/UX components in Vue.js
- Update backend and API in python to integrate big data into front-end
- Build front-end for loans tool, capturing a previously untapped workflow
- Work on pipeline for user-trainable categorization and regression models
- Collaborate extensively using GitHub branches and pull-requests

Product Development Intern, SAP Fieldglass

Naperville, IL, Summer 2018

- Design advanced search page to streamline data lookup
- Design interface for users to index data directly, lowering indexing time by minutes and maintaining style standards
- Generate search suggester to ease process and improve hits

Operations Intern/Developer, Dealer Inspire

Naperville, IL, Jun 2017-Jan 2018

- Develop machine learning solution, categorizing with a success rate of 70% (up from <10%, random categorization)
- Visualize ticket histories to find break-points
- Present results to staff of over 300 people

Education

Bachelor of Science in Computer Science (Dec 2019)

GPA 3.75/4.0

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