ERIC BAI

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SKILLS

Languages   Python, Java, JavaScript, C++, PHP, Ruby, SQL, HTML, CSS

Technologies   React, Android, NodeJS, Git, MVC Frameworks, Linux, TensorFlow, AWS

Algorithms   Continuously solving algorithm and data structure problems from HackerRank and LeetCode. Solutions shared at github.com/baieric/hackerRank

WORK EXPERIENCE

FACEBOOK | SOFTWARE ENGINEER

Sep – Dec 2017 | Menlo Park, CA

- Developed end-to-end admin tool for restricting Instagram user actions, including the Django app backend, creating new API endpoints and updating existing infrastructure
- Implemented various front-end interfaces for using the Instagram restriction framework, such as React, Android, and iOS GUIs, as well as Haskell and PHP web actions

SIGOPT | SOFTWARE ENGINEER

Sep – Dec 2016 | San Francisco, CA

- Designed and implemented a neural network to solve reinforcement learning problems, and wrote a blog post about the algorithm with a performance analysis
- Modified the core API, corresponding infrastructure and website to implement a native cross-validation experiment feature

KIK INTERACTIVE | ANDROID DEVELOPER

Jan – Apr 2016 | Waterloo, ON

- Implemented a complete redesign of Kik's media viewer, using custom touch events, memory management, and multi-threaded tasks
- Implemented the handling and sharing of group chat URLs that open in-app

DESIRE2LEARN | SOFTWARE DEVELOPER

Jan – Apr 2015 | Kitchener, ON

- Developed controls and views that asynchronously update using callbacks from automated jobs
- Integrated Turnitin API within D2L's learning environment using the MVC pattern

REA INC. | FULL-STACK PROGRAMMER

May – Aug 2014 | Toronto, ON

- Created several websites from scratch using PHP, SQL, JavaScript, and Bootstrap

RESEARCH EXPERIENCE

UNDERGRADUATE RESEARCH ASSISTANT

May – Aug 2017 | Waterloo, ON

Researched how to apply machine learning algorithms in the field of computational photography. Used domain adaptation to augment datasets. Led to a >3% improvement for multiple cameras.

PROJECTS

XCERPT | ANDROID APP

Over 4000 downloads, and featured on Wired, The NY Times, Gizmodo and more. The app makes links posted on Twitter more engaging. Uses asynchronous tasks to process results from Tesseract OCR, Twitter and Bing Search. Conducted UX testing and used Material Design for polished feel.

THE RESISTANCE | WEB APP

Placed in the Top 10 at EngHack. A multiplayer web app adaptation of the board game "The Resistance" with real time updates. Built with NodeJS and SocketIO in 24 hours.

EDUCATION

University of Waterloo   Bachelor of Computer Science, Business Option
(expected May 2018)