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KYLE LANE

DEVELOPMENT

Python - R - C++ - Javascript
PHP - HTML - CSS - SQL
React-Native - React - Redux
AWS - Git - Luigi - Scikit-learn

DESIGN

Photoshop - InDesign - Figma
User-Centered Design

INTERESTS

Sports Analytics

Researching statistics used to gain competitive advantages

Mountain Biking

Organizing weekly rides and challenges

Competitive Sports

Hockey, squash, and table tennis

EDUCATION

University of Waterloo

Systems Design Engineering
Intelligent Systems Option

Relevant courses:

- Digital Computation (C++)
- Data Structures & Algorithms

ONLINE COURSES

Machine Learning

Coursera (Stanford)

Applied Machine Learning

Coursera (U of Michigan)

Intro to Data Science

Coursera (U of Michigan)

The Complete React Native and Redux Course

Udemy (S Grider)

WORK EXPERIENCE

Baseball Operation Data Developer - [Toronto Blue Jays](#)

Toronto, Ontario 09/2018 - 12/2018

- Created a 3D library for plotting pitches, hits, and other visualizations while working with coaches to develop associated apps (**OpenGL, R, Shiny**)
- Developed supervised learning models to improve defensive projections by 20%, create throw accuracy metrics, and investigate pitch level expected outcomes (**R**)
- Led integration with new Box API and designed pipeline for imports (**Python**)
- Proposed and implemented 30+ new metrics from time series player/ball location data to enhance player valuation and improve model projections (**Python, Luigi, R**)

Full Stack Developer - [Sprout At Work](#)

Toronto, Ontario 01/2018 - 04/2018

- Owned and shipped features including activity tracking and Apple Health Kit integration to over 3 million users for Sprout's new iOS and Android app
- Architected front-end features including a full component library, on-boarding flow, and dashboard (**React-Native, Redux**)
- Created RESTful APIs and utilized AWS to develop efficient endpoints and back-end processes (**PHP, CodeIgnitor, MySQL, AWS**)

Engineering Assistant - [R.J. Burnside](#)

Orangeville, Ontario 05/2017 - 09/2017

- Proposed and developed a web application to improve organization and productivity within the First Nation Communities (**HTML, CSS, PHP, JS, MySQL**)
- Designed and implemented features including task tracking and user management

PROJECTS

Puck Luck (NHL Modelled Stats) - thepuckluck.com

- Developed learning models for predicting goal likelihood and shot quality (**Python**)
- Created scripts to import play-by-play/location data, clean and transform the information, and generate 100+ new metrics from models (**Python, Postgres, AWS**)
- Built a RESTful open API with clear documentation for easy and free access to new data (**Flask, AWS Elastic Beanstalk**) - docs.thepuckluck.com
- Designed and developed scalable front-end for displaying data through tables, graphs, and other visualizations (**React, Redux**)

Deep Stats

- Developing an iOS and Android app which leverages multiple open APIs to present a combination of NBA statistics not found on leading sports applications (**React-Native**)
- Features include live scores with advanced statistics, standings, and player stat pages

To see more projects, visit kylealexlane.com.