

Jobs

Chartboost, Senior Software Engineer

Nov 2018 - Sep 2019

- Develop high throughput/low-latency real-time bidder in Python
- Built end to end machine learning pipeline supporting any number of frameworks or model versions
- Built model-serving framework from scratch, supporting low latency feature encoding with <8ms rtt
- Develop ETLs with Airflow and AWS Sagemaker for model training
- Built automated deployment pipeline using Spinnaker and AWS

Chartboost, Software Engineer

Oct 2017 - Nov 2018

- Built scalable RESTful APIs and backends in Python/Flask
- Manage deployment using Jenkins, Travis, and AWS
- Maintained and built micro-services, monitored with Kibana, Kafka, and kinesis
- Built frontends with ES6, React + Redux

King of the Stack, Co-Founder

Jul 2016 - Nov 2017

- Worked with various clients to create custom designs and shipped entire web apps with React, Node.js and MongoDB and grew team from 2 to 5 developers
- Taught programming to 7 non-technical students

Google, Software Developer Intern

Sep 2015 - Jan 2016

- Created internal d3 visualization library with Angular, d3, gRPC, protobufs and Bazel

Sightline Innovations, Software Developer

Sep 2014 - Apr 2015

- Developed real-time traffic monitoring systems for clients in the public sector with Ext.js

Games

CurveIK (Inverse Kinematics library)

Aug 2020 - Nov 2020

- Custom IK animation plugin for Unreal Engine 4 written in C++
- Implements De Casteljau's algorithm for bezier curves

Mr. Makes-A-Word (iOS word game)

Sep 2019 - Feb 2020

- Word game for available on the iOS app store using C# in Unity
- Data analysis, simulation, statistics, and research on word frequencies and letter combination schemes in Python.
- Personally created artwork, animation and music.

Skills

- C++
- C#
- Unreal Engine
- Unity3D
- Blender
- Python
- Javascript
- AWS
- Kafka
- Airflow
- MySQL
- Redis
- Hive
- Airflow
- Docker
- Tensorflow
- Datadog
- Spinnaker
- Node
- Flask
- Jenkins

Degree

BSc.Eng, 2017
Software Engineering

The University of
Western Ontario,
Canada