

Summary

- **Languages:** Python, C++, JavaScript, Ruby, SQL
- **Frameworks:** Flask, Tornado, Node, Express, Rails
- **Tools/Services:** Docker, Jenkins, Nomad, Consul, Terraform, OpenStack

Experience

Bloomberg | Systems Infrastructure Developer Jan – Apr 2018

Python, C++, Consul, Docker, Terraform

- Designed architecture and APIs for universally-reachable HTTP-based service discovery
- Developed APIs to register Services (e.g. Redis) with service discovery
- Added support for service discovery without a local daemon, resulting in less maintenance
- Wrote Terraform and Bash scripts to consistently produce correctly configured infrastructure

Bloomberg | Systems Infrastructure Developer May – Aug 2017

Python, C++, Docker, Tornado, Kerberos, Nomad

- Created a pipeline to build Docker images from packages when a new version is released
- Built a service to provide on-demand cloud-hosted containers with services like Kafka
- Implemented user resource quotas (CPU, RAM), using Kerberos for authentication

Yahoo | Back-end Developer Sep – Dec 2016

Node, Express, ES6, MySQL, Twilio

- Added database caching using Memcached to improve read performance
- Built phone number verification for user accounts over SMS
- Developed functionality for customers to message chat-bots from a merchant's website

500px | Full Stack Developer Jan – Apr 2016

Backbone, Marionette, Ruby on Rails

- Optimized the photo page to reduce API calls to the related photos endpoint by 80%
- Built several components of the new home feed and onboarding flow using Marionette
- Implemented business logic, models, and APIs in Rails for Photos, Comments, and Quests

TextNow | Web Developer May – Dec 2015

Angular, Backbone, Marionette, Node, Express

- Improved JS asset injection, speeding up load times by 25% and reducing file sizes by 40%
- Added a new payment process to the checkout flow and built a new landing page

Projects

TerribleHack Sep 2015 – Present

- Organized a comedy-centric hackathon focused on making unconventional hacks

Beam Nov 2016

- A Chrome extension to send and open links in your friends' browsers
- Built functionality to send links in real-time using WebSockets and Node/Express

Tech Retreat May – Aug 2015

- Co-founded Canada's first learnathon/hackathon for high school students

Education

University of Waterloo Sep 2014 – Apr 2019

- Candidate for Bachelor of Computer Science