

Fan Guo

Product focused web engineer and engineering manager.

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Connected

April 2020 –
Present

Engineering Manager

- Lead and collaborate with other engineers on guild initiatives
- Hold 1:1s with direct reports, collect feedback and facilitate progress

July 2018 –
Present

Software Engineer

- (JavaScript) Oversaw engineering team to create a custom DXF viewer using React and three.js.
- (Ruby) Improved unit test coverage, refactored for improved testability and fixed bugs in Connected's mobile automation testing framework.
- (Java) Analyzed over 100 user-submitted bug reports to diagnose and triage pre-release software issues for a new video communication hardware device.
- (Python) Supported content management processes for AR experiences, serving a key coordinating function for three separate teams.
- (Hack) Migrated data annotation projects to a new platform by collaborating with the authors of the platform to create new workflows. Generalized and shared the process to be reusable by other teams. Supported other aspects of the transition, including performance and efficiency analysis, and coordinated testing and feedback.

Flipp

May 2016 –
August 2017

Junior Software Engineer

- Built and delivered customized desktop and mobile flyer themes and dynamic content for Canadian and US retailers on Flipp's hosted platform using Ruby on Rails, JavaScript, HTML and Sass.
- The hosted platform serves over 1300 merchants, with over 180 highly custom desktop and 150 highly custom mobile experiences, including ecommerce integrations. Dynamic content on hosted platform receives over 213 million total views per month.
- Augmented the hosted digital flyer experience with interactive media for Canadian Tire to support integration between their flyer and ecommerce site.
- Oversaw and modernized dynamic content creation process for Menards, reducing developer time and overhead.
- Designed and implemented a custom, PII-compliant email registration endpoint on the flyers for Royal Ahold.
- Integrated live item stock and aisle information for The Home Depot.
- Developed store-specific interactive dynamic content maps for Walmart's Black Friday strategy

Projects

4th Year Design Project

2017 – 2018

PillPal: an IoT multi-pill dispenser and management tool

ASP.NET Core C# ReactJS

- Developed and prototyped an application and devices to improve medication adherence in the elderly, with a focus on accessibility.
- Worked predominantly on physician dashboard design and integration with backend services.

Flipp Internal Hackathon

July 2016

Onboarding script

BASH

- Compiled commands and setup instructions into a script that allowed the user to quickly set up a Ruby on Rails development environment.
- Reduced average set up time by 80%.

Honours

2018

CNIB Hochhausen Prize for Excellence in Accessible Design in Engineering for People who are Blind or Partially Sighted

Presented by the University of Toronto and CNIB for incorporating accessibility into the design of our project “PillPal: an IoT multi-pill dispenser and management tool”.

2018

Certificate of Distinction for Excellence in Design Project

Selected to present at the ECE Final Design Showcase and ECE 4th Year and Alumni Celebration event for our project “PillPal: an IoT multi-pill dispenser and management tool”.

2018

Engineering Athletics Association: Julie Wilkinson Award

Awarded to a graduating student in engineering for achievement in intramural athletics.

2016

Huawei Seeds for the Future, Canadian Delegate

One of 18 delegates across Canada for an immersive two-week cultural and technical lab program in China to understand the roles of Canada and China in the global ICT market.

Education

University of Toronto, St. George Campus

2013 – 2018

Bachelor of Applied Sciences in Computer Engineering

- New College Residence Don
- Skule's Got Talent
- University of Toronto Engineering Orientation
- University of Toronto Iron Dragons Dragonboat Team
- Skule Intramural Volleyball
- Skule Intramural Ultimate Frisbee