

# Nicholas Xie

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## Fullstack Dev

**Frameworks:** React • AngularJS • Django • Phoenix  
**Node.js/JS:** Express.js • Hapi.js • JQuery, Ajax  
**Utility:** MySQL, PostgreSQL • Responsive CSS/Sass

## Infra, Testing & Tools

AWS (CDK2) • Ansible • Vagrant  
Docker • k8s • NGINX • Gulp  
Mocha, Jest, JUnit • gRPC

## General

Javascript, Java  
C, C++  
Python, XML

## Relevant Experience

### Amazon | Software Development Engineer

Sep 2021 – Jan 2023

- Worked in the **Alexa ecosystem** to help build a seamless grocery shopping experience for over 50k monthly customers
- Investigated a leakage of MAU from NLU errors, leading to discovering a lucrative pet supplies opportunity
- Owned and shipped a CX for pets, set up marketing cards to achieve **over 3.5M impressions and 30k+ monthly taps**
- Helped **expand CX into UK market** by localizing Alexa voice utterances and visual content
- Improved team efficiency through various on-call tasks including a **full pipeline migration to CDKv2** and updating metrics

### Huawei Canada | Compiler Software Engineering (Intern)

Sep 2020 – Dec 2020

- Worked in a team of 5 to expand the Ithel ML method of **basic block throughput estimation** modified for a RISC-V CPU
- Configured cross compiled benchmarks to run through the gem5 simulator to **generate cycle accurate training data**

### theScore | Software Developer Intern

May 2020 – Aug 2020

- Helped **expand product into new US markets** by building admin tools to satisfy new regulatory requirements
- Used functional language paradigms with Elixir programming language and Phoenix framework

### Wattpad | Associate Engineer (Intern)

Sep 2019 – Dec 2019

- **Boosted in-app coin redemptions by 31%** by helping deliver new homefeed experience to improve user engagement
- Conducted **A/B testing** on users' content discovery to make data driven decisions on **premium/paid content promotions**
- Improved **internationalization** by enhancing support for users reading in right-to-left languages (Arabic, Hebrew, etc)

### League Inc. | Software Developer Intern

Jan 2019 – Apr 2019

- Worked with **React** across 3 cross functional teams, as well as actively engaging in front-end and design meetings
- Wrote **an article** for the company blog detailing the intern experience, reaching over 1.5k views  
Link: <https://medium.com/inside-league/4-months-4-desks-the-league-co-op-experience-7a8835947c1c>

### Interac Corp. | Software Developer Intern

May 2018 – Aug 2018

- Worked in a team of 5 to build a bank emulator that integrates within the Interac network to test **payment related products**
- Created user accounts and an auth system with **Passport.js** and **Express sessions**

### Bonfire Interactive | Software Developer Intern

May 2017 – Aug 2017

- Solely delivered internal dashboard used daily in the resolution of support tickets, **reducing admin support tickets by 90%**
- Changed backend structure to allow multiple database environments using **Hapi.js (Node)**

## Education

### University of Waterloo - Bachelor of Computer Science, Music Minor

Fall 2016 - April 2021

- 83.38 Cumulative GPA, Varsity Track and Field athlete

## Projects

### Living Synthesis Audio research project, Click for link to writeup

Feb - Apr 2020

- Guided research project on synthesizing instrument .wav files, [nick-xie.github.io/blog/2020/04/02/Living-Synthesis.html](https://nick-xie.github.io/blog/2020/04/02/Living-Synthesis.html)