

Kevin Shen

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WORK EXPERIENCE

Amazon

VANCOUVER, BC

SOFTWARE DEVELOPMENT ENGINEER INTERN, AMAZON DIGITAL CONTENT AND COMMERCE SYSTEMS

MAY 2020 - PRESENT

- Developed an abstraction layer on top of **Apache Spark** in **Java** to enable Big Data reconciliation of all digital purchases on services such as Amazon Music, Kindle and Alexa and to allow easier use with internal tools.

University of Toronto

TORONTO, ON

SPECIAL PROJECT SOFTWARE DEVELOPER, THE BRIDGE WORK-STUDY

SEPT 2019 - MAY 2020

- Developed a centralized data warehouse application to help over 40+ government organizations analyze the needs of **300,000+** immigrants and refugees in the Toronto Scarborough region in **React** and **SQL**.
- Built a CLI toolkit to perform cryptographic operations and various data manipulation operations on sensitive personal data with **RSA** keys in an **SQL** database.

BlackBerry

WATERLOO, ON

SOFTWARE DEVELOPER INTERN, CLOUD INFRASTRUCTURE & AUTOMATION TEAM

JAN. 2019 - AUG. 2019

- Developed internal user-friendly cloud automation micro-services for hybrid cloud computing services, cost management, and bare-metal hardware management using **MySQL**, **MongoDB**, **Rails**, **Go**, and **React**.
- Built a service monitoring tool with **Prometheus** to monitor internal cloud tools for 99.99% up-time and identify root causes of reoccurring issues by correlating data with Splunk logs.
- Created an automation tool to grab, store and query real-time hypervisor data from multiple private cloud server clusters using **ElasticSearch** for a business analytics tool that is critical to ensure optimal usage of company cloud assets.

Excite Club

TORONTO, ON

SOFTWARE DEVELOPER INTERN, UNIVERSITY OF TORONTO IMPACT CENTRE

MAY. 2018 - JAN. 2019

- Designed and implemented a merchant dashboard CMS web application using **Node.js**, Pug.js and **MongoDB**. Implemented payment systems using **Stripe payments** and **PayPal**.
- Built a cross-platform mobile application using Google's **Flutter** Framework as well as integrated **iOS** platform code using Swift 4 for iOS-specific system data collection.

TECHNICAL SKILLS

Languages C, C++, Python, Java, ES6+ JavaScript, Go, Ruby, SQL, Bash, R, Swift, Dart, Matlab

Frameworks Node.js, Android, Flutter, React, GraphQL, Rails, AWS SDK, Azure SDK, LLVM

Tools Chef, Jenkins, Kubernetes, Prometheus, Git, SVN, VIM, JIRA, Unix & Terminal Tools

EDUCATION

University of Toronto

HONOURS BACHELORS OF SCIENCE - 4TH YEAR

Specialist in Statistics - Machine Learning & Data Science

Minor in Computer Science

SEPT 2016 - EXPECTED GRADUATION APR 2021

COURSEWORK

- Compiler Optimization, Advanced Machine Learning
- Operating Systems, Analysis of Big Data
- Algorithm Design & Analysis, Computer & Network Security
- Design & Analysis of Data Structures, Software Design

PROJECTS AND ACTIVITIES

FoodCart

TORONTO, ON

CO-FOUNDER & BACK-END DEVELOPER

OCT. 2018 - PRESENT

- Based in the University of Toronto incubator, The Hub, FoodCart's mission is to provide recipe plans for families based on any budget and dietary restrictions. Built a **REST / GraphQL** mixed API server with **MongoDB** for internal and public use.

Go Vacations

TORONTO, ON

DEVELOPER

JUNE. 2019 - PRESENT

- Built a collaborative real-time vacation planner application using **Go** and **React** to save time planning trips with friends or family. Used WebSockets to create a real-time multi-user chat system and other collaborative tools such as to-do lists

Computer Science Enrichment Club

TORONTO, ON

PRESIDENT, LECTURER (APR. 2017 - APR. 2019)

APR. 2019 - MAY 2020