

Greater Toronto Area

Carl Zhou

+1 (647) 954-9063
biz@carlzhou.com
linkedin.com/in/carl-zho/
https://carlzoo.github.io

Employment

Software Engineer	Dashlane	July 2022 - Aug 2023
--------------------------	-----------------	-----------------------------

- Built API hosted on AWS with NodeJS, Typescript, Redis and MySQL empowering IT admins to generate 2FA recovery codes on behalf of employees, reducing customer support contacts
- Developed NodeJS API and ReactJS dashboard of Account Recovery feature for over 15 million users

Senior Software Engineer	StockX	Feb 2020-July 2022
---------------------------------	---------------	---------------------------

- Built a scalable user identity system in NodeJS and PHP for 5 million+ active users, which communicated with other microservices via Amazon SQS during user signup
- Worked with compliance team to process GDPR and CCPA requests with program written in Go
- Developed a fraud prevention NodeJS Docker microservice on AWS that integrates multiple external payment fraud detection vendors to analyze orders and protect the company from fraudulent transactions worth over \$50 mil. dollars (5% of revenue)

Junior Software Engineer	Rapid7	June 2018-May 2019
---------------------------------	---------------	---------------------------

- Developed Ruby tool for generating and deploying software vulnerability protection checks to defend enterprise companies' infrastructure software such as Microsoft Windows, Oracle Database
- Increased coverage and improved accuracy of plugins in Java software fingerprinting engine, including the new detection of a critical vulnerability in Zoom

Crypto Solutions Dev Intern	William Hill Australia	May 2017 – Aug 2017
------------------------------------	-------------------------------	----------------------------

- Implemented a REST API to process Bitcoin transactions and in C# (.NET Core), which reduced payment processing costs by over 50%, and also eliminated fraudulent chargebacks

QA Engineering Intern	Symphony Commerce	Aug 2016 – Dec 2016
------------------------------	--------------------------	----------------------------

- Detected and reduced errors on live site with automated tests using TypeScript and Powershell scripts

Malware Research Assistant	Nokia	Jan 2016 – Apr 2016
-----------------------------------	--------------	----------------------------

- Analyzed malware samples and wrote Snort Network IDS signatures to detect malicious network traffic

Web Developer Intern	University of Waterloo	May 2015 – Aug 2015
-----------------------------	-------------------------------	----------------------------

- Improved school campus visitor experience by rebuilding PHP (Drupal CMS) website based on visitors and tour staff feedback
- Increased leads for newsletter campaigns by integrating booking website and MySQL database with Sugar-CRM to capture contact information from signups

Web Developer Intern	Orchard Labs Inc.	Apr 2014 – Aug 2014
-----------------------------	--------------------------	----------------------------

- Lowered order processing time by creating a responsive shipping label generator in PHP, MySQL, JavaScript, and Bootstrap CSS ,which integrated with the Canada Post API
- Reduced incoming inquiries from customers by 25% after developing an order status page

Languages and Technologies

- Proficient: AWS, NodeJS, PHP, Java, C#, TypeScript, SQL, JavaScript, Git, HTML, CSS, Docker
- Familiar: Android, C, C++, Go, Redis, Bash, Kafka, Powershell, Python, Selenium, Kubernetes, Ruby

Education

Waterloo, ON	University of Waterloo	Sept 2013 – Apr 2018
---------------------	-------------------------------	-----------------------------

- Bachelor of Computer Science with Minor in Psychology.