

New York Metropolitan Area

## Carl Zhou

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### Employment

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<b>Software Engineer</b>	<b>Dashlane</b>	<b>July 2022 - Present</b>
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- 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

<b>Senior Software Engineer</b>	<b>StockX</b>	<b>Feb 2020-July 2022</b>
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- 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)

<b>Junior Software Engineer</b>	<b>Rapid7</b>	<b>June 2018-May 2019</b>
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- 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

<b>Crypto Solutions Dev Intern</b>	<b>William Hill Australia</b>	<b>May 2017 – Aug 2017</b>
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- 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

<b>QA Engineering Intern</b>	<b>Symphony Commerce</b>	<b>Aug 2016 – Dec 2016</b>
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- Detected and reduced errors on live site with automated tests using TypeScript and Powershell scripts

<b>Malware Research Assistant</b>	<b>Nokia</b>	<b>Jan 2016 – Apr 2016</b>
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- Analyzed malware samples and wrote Snort Network IDS signatures to detect malicious network traffic

<b>Web Developer Intern</b>	<b>University of Waterloo</b>	<b>May 2015 – Aug 2015</b>
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- 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

<b>Web Developer Intern</b>	<b>Orchard Labs Inc.</b>	<b>Apr 2014 – Aug 2014</b>
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- 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

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- 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

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<b>Waterloo, ON</b>	<b>University of Waterloo</b>	<b>Sept 2013 – Apr 2018</b>
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- Bachelor of Computer Science with Minor in Psychology.