

New York Metropolitan Area

Carl Zhou

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Employment

Software Engineer	Dashlane	July 2022 - Present
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- Built API with NodeJS, Typescript, Docker, AWS, and MySQL for IT admins to generate 2FA recovery codes on behalf of employees, preserving zero-knowledge architecture and reducing customer support contacts
- Built Node.JS API and React.js dashboard of Account Recovery feature for over 15 million users

Senior Software Engineer	StockX	Feb 2020-July 2022
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- Developed a scalable user identity system in NodeJS, and PHP to handle over 5 million active users
- Worked with compliance team to process GDPR and CCPA requests with program written in Go
- Designed and developed a fraud prevention service which integrated three external payment fraud detection vendors to analyze credit card, mobile and Paypal payments, protected the company from \$50 mil. dollars (5% of revenue) of fraudulent transactions

Junior Software Engineer	Rapid7	June 2018-May 2019
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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

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

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

Malware Research Assistant	Nokia	Jan 2016 – Apr 2016
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- Protected ISPs and their customers from the latest malware threats by analyzing malware samples, and then writing Network IDS signatures to detect malicious network traffic based on analysis

Web Developer Intern	University of Waterloo	May 2015 – Aug 2015
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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

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

- 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
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- Bachelor of Computer Science with Minor in Psychology.