






Wei-Chen Chen

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7+ YoE with solid domain knowledge in operating system, cloud infrastructure, CI/CD DevOps, and data storage.
Open to senior software engineer or site reliability engineer roles in relevant domains.

Experience	Senior Software Engineer Bolt, USA (Remote)	Jan 2022 - present	
	<ul style="list-style-type: none">Led projects of secret management system to enhance deployment flexibility and service reliability by integrating Kubernetes Container Storage Interface (CSI) driver with secret storesDeveloped inter-service communication REST API framework used company-wide to migrate from monolith to microservicesDesigned database migrations CI/CD pipeline that provides capability of audit and safe database evolvment with Kubernetes service deployment		
	Platform Lead Software Engineer Devicebook, Bellevue, WA, USA	Dec 2020 - Jan 2022	
	<ul style="list-style-type: none">Led to wireless interfaces and MCU bring-up (Wi-Fi, Bluetooth, and other Wireless modules) for ARM-based platformsCustomized Linux kernel by integrating upstream Yocto Project BSP and built it into the OS image deployment pipeline for ARM-based devicesDesigned the on-chip fault-tolerant system recovery mechanism for special-purpose bootloaders		
	Software Engineer II Microsoft, Redmond, WA, USA	Jul 2016 - Oct 2020	
	<ul style="list-style-type: none">Developed 5G NR and 4G LTE network features in MBIM kernel driver and OS system serviceContributed to Wireshark Open-source project to support MBIM protocol parser in USB captureRefactored cellular network emulation framework by exposing Interoperability between C++ and C# such that it empowers internal developer teams to improve test coverage to >90%Designed WinRT API of Mobile Broadband Specific Absorption Rate (SAR) feature empowering developers to dynamically control radio power in accordance with international safety regulations		
	Software Engineer Intern Google, Mountain View, CA, USA	Jun 2015 - Aug 2015	
	<ul style="list-style-type: none">Developed machine learning model to recognize the indoor significant Wi-Fi footprint with low recall (~80%) and high precision (>90%)		
	Research Assistant Intel-NTU Connected Context Computing Center, Taipei, Taiwan	Aug 2012 - Jun 2014	
	<ul style="list-style-type: none">Implemented real-time systems, which Integrated heterogeneous components such as wireless sensor network nodes, actuators, and gateways, for interactive smart home research		
Education	University of Wisconsin–Madison Master of Science – Computer Sciences	2014 - 2016	
	National Taiwan University Bachelor of Science – Computer Science and Information Engineering	2007 - 2011	
Skills	Programming C, C++ (Modern C++11/14/17), Python, Golang, Java, C#, JavaScript		
	Operating Systems Linux/FreeBSD, Mac OSX, Windows, Specialty IoT Embedded System		
	Cloud Platforms AWS, Azure		
	Frameworks/Tools/Other Domain Knowledges Workflow Git, CircleCI, Jenkins, Kubernetes, Terraform, ArgoCD, Jira, Asana		
	Observability Datadog, Honeycomb		
	API RESTful, gRPC		
	Database and Other Specialty Storage Relational PostgreSQL NoSQL DynamoDB Secret Hashicorp Vault, k8s Secrets, k8s CSI Blob AWS S3		

 <https://www.linkedin.com/in/zarcen>

More about my research publications and other activities