

David Wen Riccardi-Zhu

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TECHNICAL SKILLS

Proficient AWS, bash, Containers, Go, git, Linux, MongoDB, PostgreSQL, REST APIs, System Design

Experienced C, CSS3, Emacs Lisp, HTML, OpenBSD, Python

EXPERIENCE

Vice-President of Engineering — [Daybreak Health](#)

January 2022 – October 2022

- Architected and built Daybreak Health API, utilized by its cross-platform React Native app.
- Stood up backend development environment, including build scripts, service configuration, and containerization.
- Developed database schema, migrations, queries, and Go packages for database models.
- Integrated backend with AWS, Salesforce, Slack, Twilio, and Health Gorilla APIs.
- Documented API and backend development setup for onboarding engineers.
- Mentored and trained junior engineers and interns.
- Conducted code review and maintained the backend monorepo.

Vice-President of Engineering — [Good Uncle](#) (acquired by [Aramark](#), May 2019)

January 2018 – January 2022

- Built backend services, enabling simultaneous cooking and delivery of orders from proprietary vans. ~400K orders and \$5M in revenue as of August 2021, with an average delivery time of 25 minutes.
- Rearchitected infrastructure to obtain cost reductions of 99% for AWS, 69% for MongoDB, and 85% for CI/CD.
- Built control panel web app, utilized by delivery drivers, operations, marketing, and customer support.
- Managed development and release of cross-platform React Native app; contributed refactors and bug fixes.
- Consolidated the engineering team to two engineers, reducing the largest engineering expenditure.
- Built an inventory prediction engine used by the culinary team to estimate the number of meals to prepare.
- Integrated backend with university payment systems, including: Atrium, CBORD, and Transact.
- Designed and developed a mealplan subscription system in three months, collecting over \$500K in revenue.
- Created command-line tools to assist the engineering team, including an orders generator to simulate load.
- Found and fixed mission critical application and infrastructure bugs while under the pressure of live delivery operations.
- Integrated APIs, including: AWS, Big Query, Google Maps, Intercom, Samsara, Slack, Stripe, and Twilio.

Consultant — [China Energy Fund Committee \(CEFC\)](#)

August 2014 – July 2017

- Drafted speeches delivered at high-level events on public policy and international relations, including the Internet Governance Forum, the UN Secretary-General's High-level Advisory Group on Sustainable Transport, and CEFC sponsored events on Sino-U.S. relations and sustainable development.
- Composed editorials for publications on sustainability, international relations, internet governance, and China's economic development.

Infantry Assault Marine — [United States Marine Corps Reserve](#)

August 2009 – Jun 2013

- Trained in infantry operations and specialized in the employment of rockets, explosives, and anti-armor combat.
- Company Honor Graduate in Recruit Training; meritorious promotion to Corporal.

PERSONAL PROJECTS

Self-hosted [personal website](#) (LetsEncrypt, Debian, Go) ♦ Self-hosted security cameras with object detection (motion, bash, Raspberry Pi, AWS Rekognition, yolov7) ♦ OpenBSD Router (dhcpcd, pf, unbound) ♦ FizzBuzz in x86 Assembly ♦ Terminal game (Go) ♦ [HTML canvas game](#) (JavaScript) ♦ [Free memory system call in xv6](#) ♦ Diet Quality Score Calculator

EDUCATION

Advanced Software Engineering Immersive, Hack Reactor

January 2018

Juris Doctor, St. John's University School of Law (Bar Admission, NY 2015)

May 2014

Bachelor of Arts (Philosophy and Italian Studies), Wesleyan University

May 2009