

John Otwell

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SUMMARY

Software Engineer with 3 years of experience working across the web stack. Comfortable with abstractions from the processor to distributed systems. Designs and improves systems by managing orthogonal concerns and loosely coupling code modules.

EXPERIENCE

Software Engineer | Chipper Cash | San Francisco, CA | June 2022 – March 2023

- Built and administered backend cryptocurrency system serving ~90k active users.
- Used TypeScript, Koa, PostgreSQL, TypeORM, and Retool to deliver backend services across ~200 endpoints with 33 endpoints directly administered.
- Lead IC in design and integration of CBDC technologies into Chipper's offering.
- Used Typescript, React, and ReactNative front-end technologies to coordinate with and support front-end team in delivering good end-to-end UX.
- Led effort to integrate OpenAPI 3.0 spec into backend workflow; directly used OAS to document and test 33 endpoints.

Software Engineer | Efficiency Aggregators | Houston, TX | August 2020 – April 2023

- Built and customized ERP system using Python, Odoo14, PostgreSQL, Javascript, and Digital Ocean tools to administer ~\$500k in revenue per quarter.
- Developed greenfield application using Javascript, Node.js, and SQLite to administer electrical load-balancing with residential standby generator customers.
- Built static site using Jekyll and Ruby that consistently scores above 90 in relevant Google Lighthouse metrics.
- Administered all vendor accounts including Google Workspace, Housecall Pro, Digital Ocean, Gitlab, and JustHost.
- Full-time through June 2022, part-time after.

Software Engineer | Instructure | Salt Lake City, UT | February 2020 – August 2020

- Developed and maintained custom applications for 8 clients implementing student tracking, content delivery, and lesson planning.
- Built small applications with 10–30 controller methods using Ruby, Rails, Javascript, React, and PostgreSQL to integrate with the Canvas LMS.
- Collaborated remotely with a team of 10 software and test engineers.

High School Science Teacher | High School for CTEA | New York, NY | September 2018 – September 2019

- Instructed over 50 students in biology, introductory and AP, and over 60 students in computer science, introductory and AP.

English Teacher and Teacher Trainer | United States Peace Corps | West Java, Indonesia | March 2015 – July 2017

- Instructed over 150 students in English and over 100 fellow volunteers and local teachers in English and pedagogy.

SKILLS

Front End: Typescript, Javascript, React, Tailwind, HTML5, CSS3

Backend: Typescript, Node, Ruby, Rails, MVC, TypeORM

Data: PostgreSQL, Redis, Sqlite

Deployment: Docker, Digital Ocean, AWS

Other interests: Haskell, Go, C, Elm, Nix, Nixos

PROJECTS

Software Engineer | VetGPT | April 2023 – Present

- Designed and implemented frontend using Typescript, NextJS and React to elicit details about clients' pets to use GPT-4 to recommend triage steps for veterinary situations.
- Implemented API backend, also using NextJS, to facilitate client communication with GPT-4 and with human veterinarians and accept payment for human consultations.

EDUCATION

Computer Science Intensive | Bradfield School of Computer Science | 2023

MSc in Digital Currency | University of Nicosia | Nicosia, Cyprus | 2019

Bachelor of Science in Cellular Biology, Microbiology | University of Georgia | Athens, Georgia | 2012