

# Isaac Christopher Vance

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## Professional Experience

### Cadre Government Solutions

*Software Engineer*

March 2024 - present

- Wrote and deployed changes for migration from **Classic** to **Zeitwerk** mode for full application upgrade to **Rails 7**.
- **Refactored database schema** to pull overloaded and duplicated model attributes into new table for site wide usage.
- **One of three total engineers** to manage 7 module **Rails application** for worldwide **DOS VisaOps** visa platform.
- Debugged/developed **.md documentation** for old **Ruby versions** on **M3 Mac** architecture for system wide version upgrade.
- Wrote documentation and presentation explaining core **bit masking** database column abstraction to onboard new engineers.
- Developed **json**-based config tool used by test engineers to add new core mission models for **onboarding new countries**.

### Recurly, Inc.

*Software Engineer, Payments Success*

January 2024 - March 2024

- Designed, implemented, and canary released AVS/Partial-AVS and CVV system for Chase Orbital gateway integration.
- Worked with Principal and Senior engineers to plan and execute **schema migrations** to correctly store and send CC **NTIDs**.
- **Lead engineer** on data cleanup process design, training, and handoff to customer support engineers to reduce team overhead.
- Provided payments success for processing of over \$1 Billion per month for a subscriber base the size of France.
- Used **Github Copilot generative AI** to refactor **Node.js** integrations to **Ruby** and **GoLang**.

*Associate Software Engineer I-II: Escalations Engineering - Payments Success*

September 2021 - January 2024

- Tested integrations and API calls using **Insomnia** and **Postman** for **end-to-end** tests and to replicate production payloads.
- Built new integrations to third party payments APIs across four 4 major microservices in **Ruby**, **GoLang**, and **Node.js**.
- Only Associate Engineer to ever receive a **SPOT recognition award** and bonus for work on company wide security incident.
- Implemented **multithreaded** scripts to process over 6 million records as sole engineer for **PCI** compliance bug fix.
- Deployed **hot fixes** to 4 services in **Ruby**, **Node**, and open source [Recurly-JS](#) to ensure handling of a \$20 million batch.
- Participated in senior engineers' office hours for front end fixes in **React** and to help with **UI refactoring**.
- Managed **kubernetes pods** through **GCP** to manually restart qa automation **Cron Jobs** and **regression tests**.

### Sporian Microsystems

June - October 2020

*Software Development Intern*

- Used **Flask** framework to implement Jinja template based **Python** webUI for displaying data from mobile microcontrollers.
- Experimented with **Django** framework to assess cost/benefit of functionality in relation to implementation weight.

## Education

University of Colorado at Boulder:

**Bachelor's Degree in Computer Science:** May 2022 **GPA:** 3.8

**Bachelor's Degree in Mathematics:** Dec 2016 **Bachelor's Degree in Economics:** Dec 2016

### Projects:

#### - **OS Thread Safety Project:**

Implemented a **Shared Buffer Array** using `<pthread.h>` and `<semaphore.h>` C libraries for **thread synchronization**.

#### - **RISC-V ISA CPU Implementation:**

Independently designed and built a fully functional RISC-V processor by writing **RISC-V Assembly** programs.

#### - **Object Oriented Analysis and Design Project:**

Created an **OOP** application using **GitHub KanBan**, test driven development (**TDD**), and **JUnit** tests with IntelliJ IDE.

## Technical Skills

**Programming/Automation:** Ruby, Rspec, Golang, go test, Javascript, npm/nvm, Java, JUnit, Python, Bash/zsh, C++, C

**Web Development:** Ruby on Rails, React, Node.JS, JQuery, HTML, CSS, Flask, Django

**Platform:** GCP, Git/Github Actions, Docker, Kubernetes, RabbitMQ, Codefresh, VS Code, Slack, TravisCI, AWS

**Personal Interests:** Music Production and Performance, Traveling, Sailing, Rock Climbing, Hiking, Camping, Basketball