

# Isaac Christopher Vance

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## Professional Experience

### **Recurly, Inc.**

#### *Software Engineer, Payments Success*

January 2024 - present

- 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 II, Payments Success*

October 2022 - January 2024

- Built out new integrations to third party payments APIs across four 4 major microservices in **Ruby**, **GoLang**, and **Node.js**.
- Managed open source raw **.js** repo [Recurly-JS](#) to make **tokenize** payment method API calls from browser loaded application.
- Contributed **User Story** tickets to **agile** process through **spike** work investigation of gateway integration API documentation.
- Built **Graylog** dashboards and used **BigQuery** to monitor live production rollouts of code and support scripts.
- Completed “**Architecting with Google Kubernetes Engine**” course with certified Google trainer for platform understanding.
- Managed **kubernetes pods** through **GCP** to manually restart qa automation **Cron Jobs** and **regression tests**.

#### *Associate Software Engineer I, Escalations Engineering*

September 2021 - October 2022

- Gained extensive familiarity in a production environment cloud based **SaaS Ruby on Rails application** through debugging.
- Tested integrations and API calls using **Insomnia** and **Postman** for **end-to-end** tests and to replicate production payloads.
- Only Associate Engineer to ever receive a SPOT recognition award and bonus for work on company wide security incident:
  - Implemented **multithreading** scripts to search and process attributes on over 6 million records.
  - Sole software engineer on bug fix and compromised data cleanup to maintain **PCI** compliance.
- Implemented and deployed open source [Recurly-JS](#) contributions to workaround Cybersource gateway bug for customer.
  - Concurrently off-cycle deployed **hot fixes** to 4 microservices in **Ruby**, **JS**, and **Node** to meet merchant deadlines.
  - Fix ensured correct processing of an over \$20 million batch of recurring transactions to Cybersource.
- Participated in senior engineers’ office hours for **front end** fixes in **React** and to help with **UI** refactoring.

### **Sporian Microsystems**

June - October 2020

#### *Software Development Intern*

- Used **Flask** web development framework to implement **Python** webUI for displaying data from mobile microcontrollers.
- Gained familiarity with Jinja templates in order to efficiently populate **HTML** files using python.
- 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