# Isaac Christopher Vance

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## Professional Experience

**Recurly, Inc.**                                                                                  October 2022 - present
*Associate Software Engineer II, Payments Success*
· 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.
· Managed **kubernetes pods** through **GCP** to manually restart qa automation **Cron Jobs** and **regression tests**.
· Provided payments success for processing of over $1 Billion per month for a subscriber base the size of France.

*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.

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## 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.

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## Technical Skills

  **Programming/Automation:** Ruby, Rspec, Golang, go test, Javascript, npm/nvm, Java, JUnit, Python, Bash/zsh, C++, C
  **Web Development:** Ruby on Rails, Node.JS, React, JQuery, HTML, CSS, Flask, Django
  **Platform:** GCP, Git/Github Actions, Docker, Kubernetes, RabbitMQ, Codefresh, VS Code, Slack, TravisCI, AWS

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