Isaac Christopher Vance

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Professional Experience

Cadre Government Solutions

Software Engineer   March 2024 - present
- · **One of three total engineers** to manage 7 module **Rails application** for the entire worldwide **DOS** immigration-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
- · 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.
- · 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.
- · Built **Graylog** dashboards and used **BigQuery** to monitor live production rollouts of code and support scripts.
- · 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