

JEFF CARDINAL

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EDUCATION

University of Georgia

Athens, GA

Bachelor of Science, Computer Science

Spring 2018

TECHNOLOGIES

React

Next.js/Node.js

JavaScript/
TypeScript

Three.js/WebGL

Java Spring Boot

GCP/AWS

Python 3

OAuth 2.0

Microservices

JUnit/Jest

Kubernetes/Docker

CI/CD

EXPERIENCE

May 2021 – May 2024

Greenlight Financial Tech

Atlanta, GA

Software Engineer II

BET/Krona

- Full-stack engineer for the customer service internal tool, Commander
- Create functional components in React for web app UI, connecting to Node.js backend
- Design and implement AWS event solving for one-time shipping address, reducing customer support calls by 90% for this issue
- Write Golang code to implement key user id filtering for feature toggles, which saw use company-wide

Spend Save Give

- Improve transaction history, the most used feature on app, by implementing new categorization and deduplication logic
- Work with designers to convey categorization information clearly to the user

Cards

- Lead design and implement from 0-1 new PIN Set Screen and backend logic using React, Node.js, and provide usage and error insights via DataDog
- Lead design for new backend Custom Card promotional flow, work with Auth team
- Improve card activation/lifecycle Node.js API to reduce customer service calls by 39%
- Process card events with TypeScript workers/jobs using AWS push/pull architecture
- Migrate code components from monolith to microservices, convert to TypeScript
- Improve end-to-end test suite by increasing coverage for card flows from 65% to 90%
- Build dashboards, create metrics and monitoring, and on-call paging support provided via DataDog and Sentry
- Work with third-party vendor to implement features and integrate with their API and event system

Jan 2018 – May 2021

The Home Depot

Atlanta, GA

Software Engineer

SKU Mapping Store Infrastructure

- Design and implement app suite to dynamically send SKU-taxability maps to stores
- Develop React UI for tax accountants to paginate, filter, sort, and manipulate SKU maps
- Dynamic tax mapping reduces time to update a SKU from several days to 1 minute
- Create Spring Boot SKU Mapping API to publish Pub/Sub messages from UI
- Use Micronaut to process up to 50,000 messages per day and update CouchDB
- Lead effort to secure app-to-app connections using OAuth 2.0

Tax Service

- Design and implement a Common Tax API from 0-1 to serve as single source of truth for all of The Home Depot's sales, use and appliance tax transactions, reducing the number of applications serving tax from 3 to 1 and onboarding 10+ internal clients
- Spring Boot app serving 400 million transactions per year and scaling
- Maintain, query, and migrate MySQL and PostgreSQL databases
- Write Bash and Python scripts to support critical business processes, reducing risk of store SKU mapping failure by 95%
- Build CICD pipelines in Concourse and TeamCity, innovating test suite with expanded integration tests
- Provide metrics and monitoring with Wavefront, New Relic, Splunk, and Looker
- Create, deploy, and orchestrate Docker images to cloud platforms such as GCP and PCF

2015 – Current

PLUS100, LLC

Atlanta, GA

Founder, Art Director, Musician, Dev

PLUS100, LLC

- Create 3D interactive websites with TypeScript, Three.js, Tailwind, WebAudio API and React
- Synthesizers – Implement proprietary waveform via C++ using open-source Korg SDK
- VST3 plugins build in Steinberg SDK, JUCE, Max – design and implement GUI, implement DSP via C++ to create audio FX portable to both Mac and PC for use in any DAW
- 25 million+ streams, 15,000+ physical records sold to 10,000+ customers built from grassroots campaigns
- Create motion graphics using Adobe After Effects, Illustrator and Photoshop, in tandem with 3D renderings in Blender, in one case boosting follower growth by 10% with one post
- Create and manufacture vinyl records, cassette tapes, CDs, and other niche products to distribute worldwide in both web shops and physical stores in Japan, The Netherlands, UK, and the United States
- Promote via Meta marketing campaigns, editorial and algorithmic playlists
- Create artwork, produce, mix and master music for 50+ releases
- Design Shopify and Bandcamp storefronts, use analytics to implement new marketing strategies