

julius alexander iv

+1 (309) 319-0689 ■ juliusiv.github.io ■ alexaj5rpi@gmail.com

experience

Enlitic

Part-time Engineer
Oct 2019 — Present

Built hospital data ingestion libraries, services, and pipelines to process millions of medical records

Championed engineering best-practices by building a monitoring platform, pioneering deployment configuration, and promoting unittesting

Python ■ Javascript ■ Airflow

PlanGrid

Engineer
Aug 2016 — Aug 2019

Unified authentication across all apps, including SSO and OAuth login

Helped rebuild a feature that replicates state between projects (Workspaces), with a distributed design

Designed and built the user activity log backend, with monthly table rollover and ~10ms response times

Guided Admin team architecture in async processing patterns, service boundaries, and service resilience

Identified the need for a more seamless and consistent method of creating product emails, and built a new emailing tool to validate, preview, and translate HTML emails while leveraging the PlanGrid design system

Python (Flask, SQLAlchemy) ■ Javascript (React, Redux) ■ PSQL ■ AWS (SQS)

Google

Engineering Intern
May 2015 — Aug 2015

Rebuilt Chrome's spellchecking system to use multiple languages simultaneously, fulfilling one of its oldest feature requests and impacting millions of users

C++ ■ Javascript

projects

Choir

Ever-evolving generative music, à la Brian Eno (WIP)

Elixir (Phoenix, websockets) ■ Javascript (Webaudio)

cranium.css

CSS framework for individually tailoring web UI's

Go ■ Python (scikit-learn) ■ Javascript

education

RPI

Aug 2012 — Aug 2016

Graduated magna cum laude with a dual degree in Computer Science and Computer & Systems Eng.

ΛXA ■ Racquetball Club ■ Rensselaer TALKS founding member