

# julius alexander iv

+1 (309) 319-0689 ■ [juliusiv.github.io](https://juliusiv.github.io) ■ [alexaj5rpi@gmail.com](mailto: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

Implemented multiple authentication systems across all apps, including SSO, OAuth, and unified logins

Built backends for multiple features and products such as the user activity log, the submittals emailer, and workspaces

Developed and led Admin team in backend architectural guidance for topics like 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.

^XA ■ Racquetball Club ■ Rensselaer TALKS founding member