

JACOB LAGESSE

WORK EXPERIENCE

Junior Full-Stack Engineer

Center for Geospatial Intelligence | May 2021 - Present

- Develop and maintain internal GIS web apps
- Prototyped a WebSocket server and Vue/OpenLayers front end to allow users to collaborate and synchronously draw and modify map geometries
- JavaScript (Node, Vue, Adonis, Express, Mapping libraries such as OpenLayers and Leaflet), PostgreSQL/PostGIS

Developer

The New York Times | March 2020 - March 2021

- Engineered and maintained a Node.js scraper system to collect and analyze Covid-19 outbreak data from 40 state government sources
- Led development of Python scripts to extract population data from over 350 state prison report documents
- JavaScript (Node), Python

Developer

Reynolds Journalism Inst. Innovation & Futures Lab | Aug 2019 - May 2021

- Developed web applications, software tools and data pipelines
- Worked in one-on-one sessions with research mentor until March 2020, worked independently on various projects after
- Python (Django), JavaScript, AWS Lambda & S3

Graphics Editor

The Maneater Student Newspaper | Aug 2019 - May 2021

- Mentored data/graphics team and led weekly meetings
- Built interactive data visualizations in D3.js to enhance data-driven stories
- Created and deployed an autonomous data pipeline to scrape, analyze and visualize Covid-19 case data on campus
- JavaScript, Python, Google Apps Script, Observable, Tableau

PROJECTS

Spotify Tracker | spotifytrack.me

- LAMP stack web app that uses Spotify's API to track user preferences for songs and artists on Spotify's platform
- Stack: PHP, JavaScript, HTML/CSS, MySQL, AWS EC2

Portfolio Website | jacoblagesse.com

- React project to showcase professional work and personal projects
- Stack: JavaScript (React), SCSS, HTML

EDUCATION

University of Missouri | 2023 expected

Bachelor of Science in Computer Science,
Bachelor of Science in Economics

Honors College | Math minor, Journalism minor
3.99 GPA | 4.0 major GPA

Clayton High School | 2019

4.14 GPA, 36 ACT

CONTACT

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SKILLS

General

- Programming
- Full stack development
- Data analysis + visualization
- Design
- Communication
- Writing/editing

Languages

- Python
- JavaScript
- C
- PHP
- HTML/CSS
- SQL

Frameworks & Tools

- Vue
- Express
- Django
- D3.js
- React

EXTRACURRICULARS

- **Special Interest Group Leader** (2021), Mizzou Computing Association
- **Executive Board** (2021), TigerHacks hackathon

HONORS & AWARDS

- **Pulitzer Prize** (2021), member of NYT team tracking Covid-19
- **Outstanding Discovery Fellow** (2020), University of Missouri Honors College
- **Walter Williams Scholar** (2019), University of Missouri
- **National Merit Scholar** (2019)
- **Eagle Scout** (2017)