James Gisele

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DEVELOPMENT EXPERIENCE

[Recurse Center](https://recurse.com) — Participant — *January 2023 – March 2023*

Spent 12 weeks programming at the edge of my abilities alongside a cohort of other developers, from senior engineers to absolute beginners. Primarily focused on picking up the fundamentals of graphics programming and the Rust language.

- Built a 3D software renderer in Rust that renders triangle meshes from OBJ files. Implements perspective projection, directional shading, z-buffer ordering, a movable camera, and screen/view frustrum clipping.
- Wrote a double slit experiment simulator using Bevy (a Rust game development engine), GLSL, and WGSL (WebGPU). App simulates configurable interference patterns for both light and matter (particles).
- Facilitated reading group for the graphics programming book *Real Time Rendering*
- Pair programmed regularly to improve technical communication and practice generous learning

Cigna/Evernorth — Software Engineering Lead Analyst — *March 2022 – December 2022*

Worked on web development team at health insurance company to build out new internally-facing applications in ReactJS and Python Flask, as well as supporting legacy jQuery applications.

- Took ownership in building a full stack React/Flask/SQL application to support call center representatives, refactoring a complex decision tree to remove bugs and improve user experience.
- Took ownership of multiple existing applications, providing support for users, streamlining logic, updating functionality, writing tests, and assisting users as necessary.
- Worked closely on small team using Agile methodology, collaborating and communicating closely as best to support userbase.

Haverford College — Digital Scholarship Developer — *September 2018 – May 2019*

Performed web development for the Haverford College Libraries.

- Conducted front-end design and development for websites displaying research initiatives pertaining to documents in the Haverford College Special Collections.
- Redesigned the front end of a Django application, providing a cleaner, more usable interface.
- Used Google Cloud Vision's OCR API to output text from 60,000+ scanned obituaries, then wrote a parser to translate the output to a standard citation format.

SKILLS

Languages and Frameworks: JavaScript, Python, Rust, React, Svelte, Node/Express, Flask, Django, SQL Server, MongoDB, Bevy, GLSL/WGSL, HTML5, CSS3/SCSS

EDUCATION

Haverford College – Philadelphia, PA

Bachelor of Arts, major in English, minor in Physics, May 2019, 3.7 GPA

ADDITIONAL WORK EXPERIENCE

Freelance — Gardener, Farmer, and Land Steward — *2017-2021, 2023 seasons*

Freelance horticultural gardener and land steward with an emphasis on sustainability and ecosystem restoration. Worked with each client to determine their needs and how best to create aesthetic and functional growing spaces for their budget and maintenance ability. Additionally worked on various larger teams to implement native plant meadows and fine gardening installations in the greater Philadelphia area. Maintained loyal client base over 6+yrs.

New Orleans Public Library — Library Associate — *August 2019 – August 2020*

Gained excellent communication, conflict management, and customer service skills. Worked closely with a team of 14, developing ability to collaborate effectively with diverse groups on shared projects.