

# Gregory Stula

Austin, Texas, USA

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## Experience

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### Salute Medical Transportation

SOFTWARE DEVELOPER

San Antonio, TX - Remote

June 2025 - Present

- Architected and deployed a transportation dispatch system with real-time SQL Server data synchronization and interactive dashboards with advanced filtering, context menus, and modal interfaces.
- Implemented hybrid authentication system supporting both session-based web access and JWT token authentication for mobile applications, with database-driven role-based access control for five distinct user roles.
- Built a comprehensive ETL pipeline integrating CSV uploads, PowerShell data transformation scripts, and parameterized SQL batch operations to process provider data from multiple healthcare networks.
- Designed normalized SQL Server database schema with junction tables for role-permission mappings, activity logging, and session storage supporting persistent authentication across server restarts.
- Created data transformation layer converting provider-specific formats from multiple providers into a unified ride schema with automated field mapping and validation.
- Implemented server-side rendering with EJS templates, caching initial data payloads in JavaScript variables to eliminate redundant API calls and improve page load performance.

### 4V Services

Remote

SOFTWARE DEVELOPER

March 2022 - February 2025

- Shipped new features and bug fixes for a search product using MarkLogic (backend), Node.js and Express (middleware), and React (frontend).
- Built a URL ingestion pipeline with server-side JavaScript and developed a React component library with data verification and duplicate detection.
- Developed a Java library to connect external data sources to NiFi processors.
- Wrote unit test suites and implemented automated CI testing on pull requests using GitHub Actions.
- Delivered features in two-week sprints within a Scrum/Agile environment; actively participated in code reviews, pull requests, releases, and documentation updates.
- Implemented custom back end mapping functions in JavaScript and XQuery to support client entity harmonization in MarkLogic Data Hub.
- Refactored legacy mapping logic to conform to updated data standards and facilitate reuse across multiple entity types.
- Interviewed candidates for internal engineering roles and contributed to technical interview design and evaluation criteria.

### Marxent 3D Cloud

Remote

DATA OPERATIONS SPECIALIST

March 2021 - July 2021

- Collaborated with a cross-functional team to configure client-specific 3D model instances in a web-based product catalog using internal tools and SQL queries.
- Used feedback from client stakeholders to iteratively adjust and deploy model configurations, ensuring high visual and functional fidelity within the application.
- Built and maintained a Node.js utility script to automate data extraction from external APIs, streamlining the model onboarding process.
- Supported internal QA and staging deployments by curating large batches of structured data and verifying catalog integration.

### Uber Technologies

Miami, FL

COMPLIANCE COORDINATOR

June 2019 - February 2020

- Provided data analysis and custom tooling to support legal compliance with Florida state alcohol laws during the rollout of Uber's alcohol delivery pilot.
- Designed a JavaScript-based auditing tool used internally to validate liquor menu content against Anheuser-Busch's product requirements.
- Built automated workflows in Google Apps Script to facilitate onboarding and compliance checks for new retail partners.
- Developed a Google Sheets extension that performed fuzzy matching of product data to help standardize SKUs and media assets, reducing launch time for new stores.
- Collaborated closely with operations and legal teams to implement scalable data processes aligned with regulatory standards.

## Skills

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**Programming** JavaScript, Lua, Python, C++, Java, SQL, PowerShell, Node.js, XQuery, C, Bash, Zsh

**Data Engineering** Microsoft SQL Server, PostgreSQL, MarkLogic, ETL Pipelines, Data Transformation, MySQL, Excel

**Web Technologies** React, Express.js, EJS, REST APIs, JWT Authentication, Session Management, Vite, Next.js

**Tools & Platforms** Git, Docker, CI/CD, GitHub Actions, Jira, Agile/Scrum, Linux, Windows, NeoVim

## Education

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### Oregon State University

Corvallis, Oregon

B.S. in COMPUTER SCIENCE

Class of 2022

# Projects

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## Unix Config

[HTTPS://GITHUB.COM/GREGSTULA/UNIX-CONFIG](https://github.com/gregstula/unix-config)

- A set of scripts and utilities made for my bespoke Arch Linux configuration
- Includes a Lua-based NeoVim configuration, a custom color scheme supporting multiple programs and terminals, an automated Zsh installation script, a font-patching script
- Also includes a suite of utilities for installing Linux with secure boot on encrypted BTRFS drives with snapper rollback support

*Suite of Custom Unix Utilities*

*Latest Release: 2025*

## Chip8

[HTTPS://GITHUB.COM/GREGSTULA/CHIP8](https://github.com/gregstula/chip8)

- A multi-threaded emulator for the Chip-8 virtual machine written in C++
- Leverages Qt 6 for windowing and SDL2 for sound and graphics
- Implements hardware-accurate 60Hz countdown timers using concurrency primitives, ensuring sound and delay timers operate independently of render speed

*Desktop Application*

*Latest Release: 2025*

## Quick Snake

[HTTPS://GITHUB.COM/GREGSTULA/QUICK-SNAKE](https://github.com/gregstula/quick-snake)

- A fast-paced snake game based on the classic Facebook game Snake 08
- Written in modern C++ with custom wrapper classes and templates implementing RAII resource management for ncurses C-style resources

*Ncurses Terminal Game*

*Latest Release: 2020*