Gustavo Diaz

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Education

Carleton College *Bachelor of Arts in Computer Science*   Northfield, MN *Sep. 2017 - June 2021*

Professional Experience

Tools & Automation Engineer   April 2021 - Present
Crate & Barrel: *Northbrook, IL*

- Administer Jira Service Management, Jira Software, and Confluence environments.
- Design and maintain custom integrations between Atlassian tools and internal systems.
- Develop automation scripts to streamline operational workflows and reduce manual effort.
- Architect and manage Jira workflows to support business processes at scale.
- Evaluate, manage, and configure Jira add-ons to extend automation capabilities.
- Implement automated user provisioning and access management processes.

IT Hardware/Helpdesk Technician   Sept. 2017 - April 2021
Carleton College: *Northfield, MN*

- Led development of a staff engagement initiative to improve technician productivity and retention.
- Co-developed and restructured onboarding and training programs for new technicians.
- Provided tiered hardware and software support for students, faculty, and staff.
- Prepared, deployed, and maintained hardware for campus employees and labs.
- Managed campus hardware inventory and lifecycle tracking.

STEM Intern   June - August 2019
Schuler Scholar Program: *Lake Forest, IL*

- Developed and launched a STEM resource website for first-generation college-bound students.
- Researched and designed STEM enrichment programming for underserved student populations.
- Led computer science workshops for education professionals.
- Facilitated in-person instruction for high school AB and BC Calculus courses.

Technical Skills

Languages: Python, C#, JavaScript, Java, HTML/CSSS
Frameworks: React, NextJS, NodeJS, Svelte, Dotnet
Tools: Jira/JSM/Confluence, Bitbucket, Git, Docker, Docker Compose

Personal Projects

Yomi Mangadex Downloader
- Designed and built a cross-platform desktop application to interact with the MangaDex API.
- Implemented automated downloading and local storage of manga chapter images.
- Native desktop support across Windows, macOS, and Linux.
  Tech Stack: Tauri, Node.js, JavaScript, Rust, SvelteKit, Tailwind CSS, Axios, MangaDex API

Ultrawider
- Developed a desktop application to automate configuration of games for ultrawide monitor support.
- Executed system-level scripts to modify resolution and display settings programmatically.
  Tech Stack: Python, PySimpleGUI, PyInstaller

Cloud Config Workaround
- Created cross-platform scripts to preserve local graphics and display configurations for games affected by Steam Cloud sync.
- Enabled seamless switching between cloud-synced and local configurations.

  Tech Stack: Bash, Windows Batch scripting

Reddit Parser
- Developed an automated Reddit bot that monitors posts for defined keywords and sends email alerts on matches.
- Implemented event-driven polling using the Reddit API.
  Tech Stack: Python, PRAW, Reddit API

Jisho API
- Built a REST API wrapper for jisho.org to translate Japanese characters into structured English definitions.
- Deployed API endpoints returning JSON responses for external consumption.
  Tech stack: Python, Flask, AWS