

Mark Aguila

EDUCATION

University of California, Berkeley

B.A. Applied Mathematics with concentration in Data Science

WORK EXPERIENCE

Gemini Business Systems | Software Developer | Carmel, IN

October 2022 - Present

- Engaged in client collaboration to serve their evolving requirements, contributed to development of new features, resolution of user-facing issues, and integration of novel functionalities with existing systems.
- Client: Auto Transport and Finished Vehicle Logistics Company
 - Developed and maintained features in Agile Business Suite for their electronic Transportation and Yard Management System which tracked the shipment of millions of new and used vehicles annually.
 - Created and edited reports within Agile Business Suite to process incoming transactions and update databases as well as update vehicle manufacturers and other trading partners with shipment progress.
 - Utilized Microsoft SQL Server tools to retrieve development data for testing, analyze production data for debugging, and edit production data when necessary to resolve system issues.
 - Contributed to payroll and claims system enhancements, improving internal workflows and data accuracy.
 - Debugged and resolved system issues, ensuring reliable performance and minimizing downtime for terminals across the Midwest, Canada, and Mexico.
- Client: Natural Gas Utility
 - Maintained and enhanced internal system for managing customer accounts, billing, payments, and service modifications, utilizing Agile Business Suite to improve operational efficiency.
 - Developed and modified reports in Agile Business Suite for data-driven analysis and optimized processing workflows.
 - Identified and resolved system bugs while implementing functionality upgrades to better support over 58,000 customers across Georgia.
 - Contributed to API development using ePortal, facilitating secure customer account and balance inquiries, as well as streamlining external payment processing.

Emmerich Manual High School | Math Teacher | Indianapolis, IN

May 2021 - August 2022

- Admitted to a highly-selective cohort of recent college graduates and career changers committed to raising student achievement in Indianapolis.
- Certified by the State of Indiana to teach multiple math courses, including Algebra II and Pre-Calculus under a Transition to Teaching permit.

PROJECTS

- US Rent Analysis: Analyzed US apartment rent data (2017-2020) using Python's pandas to identify patterns, outliers, and trends over time, by state, and apartment size.
- Literary Journal Word Trends: Analyzed 40+ years of Berkeley Fiction Review using Python to track word usage, counting words from 15 volumes and identifying trends in common words, titles, and place names.
- Maps: Visualized Berkeley restaurant ratings using machine learning and the Yelp dataset, mapping locations by region and color-coded ratings based on reviews and predicted user preferences.
- Split: Maze solving puzzle game created during a 48 hour game jam in Unity written in C#. Player controls a dot that can "split" and teleport to clones to solve mazes under time limits.

SKILLS

Programming Languages: LDL, LDL+, Agile Business Suite, Enterprise Application Environment, SQL, Python, Java, Matlab, HTML, Javascript. Familiar with Scheme, Unity, C#, Latex, and CSS.

Software: Azure DevOps, Visual Studio, Google and Microsoft Suite

Languages: Fluent in Spanish.