

ERICK VEGA



Portfolio

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Education

Bachelor of Science | Brigham Young University - Idaho | Rexburg, ID

April 2024

Computer Science, Machine Learning + Software Design

GPA: 3.95 /4.00

Awards: Full Scholarship for academic merit

Skills

- Programming Languages: **Java, Python, C++, JavaScript, SQL, HTML5, CSS**
- Tools: AWS, Jira, SplunkCloud, PowerBI, Unreal Engine
- OS: Windows, MacOS
- Languages: Spanish, English

Work Experience

Data Analyst Intern | *Brigham Young University - Idaho* | Rexburg, ID

April 2022 - Present

- Created a predictive tool in Python resulting in cost savings exceeding \$140K/Year. The tool forecasts the required number of agents for specific shifts throughout semesters
- Automated recurrent processes with an iPaaS resulting in cost savings of \$10K/year. Processes include ticket workflows, complex and recurrent administrative tasks, and data clean-up
- Designed indispensable Power BI dashboards impacting 300 employees including data wrangling, script automation, UX design, DAX measures troubleshooting, and accuracy verification
- Generated Power BI training material reducing 50% of time spent by project managers on face-to-face training and enhancing onboarding experience for new hires

Software Engineer Intern | *FamilySearch* | Lehi, UT

April 2023 - July 2023

- Constructed and maintained dozens of RESTful API microservices in Java reducing 80% of deployment failures by debugging code, enhancing unit testing, adding new features, and documenting properly
- Implemented 3 major services for administrators to perform massive data updates reducing the time to recover from outages, and respond to specific customer requests
- Monitored application deployment systems and troubleshoot daily failure cases based on impact and urgency
- Obtained strong Java exposure, including SpringBoot framework, junit testing, environments, and Vaadin front-end development

Web Content Publisher | *Brigham Young University - Idaho* | Rexburg, ID

July 2021 - April 2022

- Migrated over 300 webpages to a new Content Management System updating iconography, revising Search Engine Optimization, ensuring content was ADA compliant, and building visually appealing layouts
- Reviewed hundreds of webpages built by other team members for quality assurance, including providing significant feedback, brainstorming solutions, and distributing workloads

Projects

- Forecaster App: Used Neural Networks to optimize hiring demand at BYU-I Support Center
- Golf Swing Analyzer: Used Computer Vision to help golfers improve posture and swings
- Simulators: Developed 4 simulators in C++, employing design tools, metrics, and unit testing methodologies
- C++ STL: Implemented 12 data structures from scratch following a Test-Driven Development approach

Volunteer Experience

Full-time Volunteer Representative | *The Church of Jesus Christ of Latter-day Saints* | Chile

August 2016 - August 2018

- Cultivated strong communication skills through daily interactions with diverse individuals
- Kept weekly track of teams up to 15 people by analyzing achievements, encouraging innovative solutions, and effective time management to balance religious responsibilities with community engagement activities