Nicholas **Alvarez**

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Education

Rice University   *Houston, TX, USA*
BSCS IN COMPUTER SCIENCE; BA IN LINGUISTICS   *August 2015-May 2019*
Relevant Coursework: Intro To Database Systems, Web Development, Fundamentals of Parallel Programming, Advanced Object-Oriented Programming and Design, Operating Systems and Concurrent Programming, Introduction to Computer Security, Introduction to Program Design, Introduction to Distributed Computer Systems, Distributed Program Construction, Compiler Construction, Honors Linear Algebra   GPA: 3.57

Experience

Skills: Python, C#, Java, SQL, Junit, C, JavaScript, Angular, Linux/Unix, Azure DevOps, Git, MongoDB, PowerShell

City of Miami   *Miami, Florida*
SENIOR PROGRAMMER   *2024 -*
- Lead creation and devlopment of a replacement for city's passport acceptance application using ASP.NET Core Blazor
- Develop replacement code compliance application using ASP.NET Core MVC
- Document legacy systems which had gone lengthy periods of time with outdated and lost institutional knowledge
- Work with users to meet needs for legacy system enhancements and replacements
- Tested a suite of applications dating back 20 years for Windows 11 compatibility

Nexus Equities   *Remote*
SOFTWARE DEVELOPER   *2023*
- Maintained Google Cloud environment with relational databases and data extraction workflows
- Created business inteligence dashboards used by executives for purposes of raising capital
- Built and maintained data scraping tools for real estate property and geolocation data
- Coordinated with data scientists and financial analysts to hone extraction processes to meet evolving business needs
- Developed scripts utilizing Google Maps APIs to create visual representations of property data for use in computer vision classification, transforming classifications of various traits of properties from from a two week job to a two day job

General Motors   *Remote; Atlanta, Georgia*
SOFTWARE DEVELOPER - GLOBAL FINANCE IT   *2019 - 2023*
- Interfaced directly with business users to migrate local workflows onto a KNIME server.
- Headed innovation team in installation, configuration, and administration of company's KNIME Server instance, including custom development of utility code and enabling compatibility with services such as Active Directory.
- Migrated data governance operations from Collibra to IBM Watson Knowledge Catalog and Oracle DRM.
- Developed and maintained Python, PowerShell, and Bash scripts to interface with administrative functions and data of Oracle Hyperion suite products, Watson Knowledge Catalog, KNIME Server, and other applications.
- Facilitated financial planning by developing and maintaining suites of Python, JavaScript, and SQL scripts to extract, transform, and load data between relational databases, Essbase OLAP, business intelligence, and other applications.
- Worked closely with internal business users in remote offices, using an agile development (scrum) strategy.
- Oversaw and streamlined team's monthly development migration process, saving four to six hours per month.
- Created and enhanced reports for auditing details of the company's implementations of various commercial off the shelf software products.

Projects

Dateline Rice 2.0
DATA COLLECTION TEAM; ARCHITECTURE/INFRASTRUCTURE COMMITTEE   *2018*
- Negotiated, designed, implemented, and debugged a REST API for management of a web-scraping service for automatically gathering all Rice University related news over a given time interval.
- Coordinated with three other teams to architect a distributed and extensible service.
- Responded quickly and effectively to bugs and critical errors reported by the user and other teams during development.
- Built a fully fledged HTTP server and daemon process in Python to handle concurrent requests made to and actions performed by the service.
- Engaged in an agile-style development workflow to automate manual tasks for a client within a four month time frame.