Michael Aguilar, EIT

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Skills

FrontEnd: TypeScript, React, ASP.NET MVC, Razor, Gatsby, GraphQL, Bootstrap, WINUI 3, HTML, CSS
BackEnd: C#, .NET Core, Azure, ASP.NET API, PowerShell, SSRS, SQL, LINQ, Kusto, Docker, EF Core, Python
Version Control: SVN, TFS, Git, GitHub
Databases: MSSQL, SQLite, CosmosDB
CAD Software: NX 8.5, SolidWorks, 3DVIA

Experience

Willis Towers Watson, Portland, Oregon June 2020 - Present
Software Developer III
Developer for Health and Benefits Administration applications

- Ensure system uptime of 99.99% and SLA compliance for client with 1,000,000+ employees
- Implemented parallel processing in our employee calculation job, increasing throughput by ~300%
- Developed end to end testing tool, facilitating historically manual process for regression testing
- Utilized Azure cloud services to build data pipeline/visualization dashboard for production exceptions
- Collaborate with BAs, providing complex SQL queries, stored procedures, and data review
- Full stack support for React SPA, client REST API, MVC web app, and MSSQL DB
- Created reusable C# base class to automate several manual report processes for business analysts
- Coordinated with client and 3rd party vendors for requirements and SSO maintenance

Hyster-Yale Group, Fairview, Oregon November 2015-June 2020
Mechanical Engineer II, Global Product Development Processes
Developer for Lift Truck Configurator, Stability Analysis Software, and Capacity Plate Generation

- Followed SOLID/OOP principles to develop .NET applications to automate truck stability processes
- Cooperated with IT to interface new ordering system with existing design/manufacturing tools
- Integrated new automation process with global manufacturing to handle 80,000+ orders annually
- Coordinated company-wide with stakeholders to define business requirements for new configurator
- Managed engineering data and stability validation for several new truck releases in ratings program
- Applied Agile and TDD concepts to help implement new nameplate printing system
- Conducted global on-site training to support roll out of Polarion product lifecycle management tool
- Work with Legal/Standards depts. to ensure truck capacity plates comply with ASME/ISO regulations
- Collaborate with global engineering design teams to align stability models with test data
- Re-analyzed truck stability behavior to confirm a 25% gain in capacity compared to prior publications
- Review change requests, communicate with customers, and update code base for production

Corbin Consulting Engineers, Inc., Hillsboro, Oregon July 2015-November 2015
Mechanical Engineer
Mechanical Designer for industrial MEP and HVAC systems

- Designed chilled water cross tie system for Intel Jones Farm Campus and coordinated with customer
- Produced new P&IDs for multiple chiller systems. Updated PFDs and plan views for construction
- Calculated pressure losses, thermal expansion, flow rates, and sizing for proposed piping/ductwork

Education

Portland State University, Portland, OR
Bachelor of Science in Mechanical Engineering, Multiple Engineering Cooperative Program (MECOP)

Santa Clara University, Santa Clara, CA
Bachelor of Science in Environmental Science, Minor in Biology

Websites

Portfolio: TBD
Github: https://github.com/michaelpaguilar
LinkedIn: https://www.linkedin.com/in/michaelpaguilar