

Roland Couture

Software Application Developer

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EDUCATION & CERTIFICATIONS

- Self-directed learning via Udemy.com & other sources – C# up to advanced level; OOP principles; data structures & algorithms; ASP.NET MVC; Entity Framework 2016-'18
- Cornell University – Bachelor of Science, Civil & Structural Engineering 2006
- Engineer in Training (EIT), New York and Oregon 2006

WORK EXPERIENCE

Access Sciences Corporation, for Intel Corp., Hillsboro, OR 2016-'19
Application & Web Developer / Database Administrator

- Maintained, analyzed, debugged, optimized & gradually rebuilt legacy suite of AutoCAD productivity tools (C#, VB.NET, Autodesk AutoCAD API for .NET)
- Created productivity tools for Autodesk Revit (C#, Autodesk Revit API for .NET, Python, Dynamo)
- Performed data schema modeling to capture business rules & workflows, and built the database (SQL Server, SQL Server Management Studio/SSMS, Transact-SQL/T-SQL, Entity Framework, C#)
- Developed an ETL process for CAD-drawing metadata and all relevant associations (C#, Autodesk AutoCAD API for .NET, Intel CAD Standard, Entity Framework)
- Architected & implemented a [web app](#) to automate work and provide a front-end for displaying & editing data (ASP.NET MVC 5, WebAPI 2, REST, Razor, JavaScript, jQuery, AJAX, JSON, XML, CSS, HTML, Bootstrap, DataTables)
- Wrote unit tests to cover the more crucial modules (Visual Studio Test Suite)
- Automated numerous small tasks including my own develop/test/deploy process (just shy of true CI/CD) (Windows CMD, PowerShell, regedit, Team Foundation)
- As a solo developer, organized my own Agile workplan/stories/Kanban and source control (Team Foundation)
- Wrote & assembled high-quality documentation (Sandcastle)

Access Sciences Corporation, for Intel Corp., Hillsboro, OR 2013-'15
and **Corbin Consulting Engineers**, for Intel Corp., Hillsboro OR 2011-'12
CAD/BIM Technician

- Automated repetitive tasks in AutoCAD with custom macros and scripts (AutoLISP)
- Naïvely implemented what I later referred to self-deprecatingly as “baby’s first relational database” in Excel (VBA)

Don Cushing Associates, Portland, OR 2012-'13
Civil Designer

- Developed preliminary & final construction and permitting documents for wireless telecommunications sites
- Performed grading and utility design, and drafted plans & profiles, for commercial/residential building projects

Couture Cycles, Portland, OR 2009-'11
Proprietor

- Built custom-fitted steel bicycle frames for too few clients at too great a cost
- Consulted with clients on equipment selection and frame geometry considerations

PacifiCorp, Civil/Substation Engineering Group, Portland, OR 2007-'09
Structural Engineer

- Designed, analyzed & retrofitted steel structures and equipment foundations & anchorages for electrical substations
- Learned and applied industry and company codes, standards and specifications

MISCELLANEOUS

Learned the basics of computer science as a kid with my CS-professor father. Once ran Fortran on punched cards.

For fun: biking, hiking, karaoke, movies, trashy true-crime TV.

All-around musician who played guitar & bass in rock bands, piano in an R&B band, marching drums, jazz trombone.