

## Background

- Software developer responsible for the entire life cycle of almost every project; since 1985
- Web sites and web applications development; since 2001
- Web development languages, techniques and frameworks currently used:
  - Java
  - PHP
  - JavaScript
  - jQuery / jQuery UI / jQuery Mobile
  - CSS3 / HTML5
  - NetBeans Platform RCP
  - AJAX
  - Drupal / Drush / CiviCRM
  - Adobe PhoneGap / Apache Cordova
  - Hibernate ORM
  - Bootstrap
- ORM (Object / Relation Mapping); since 2012
  - Hibernate 4
- Java; since 2003
  - JavaFX / Swing thick-client
  - Apache Tomcat / Linux server applications
- .NET / C#; since 2005
  - ASP.Net
  - Windows Forms
- Reporting; since 2006
  - JasperReports with iReport
- SQL, stored procedures and functions with databases; since 1996
  - PostgreSQL
  - MySQL
  - Apache Derby
  - Microsoft SQL Server 2005-2012
  - Oracle
  - FairCom Server
  - Microsoft Visual FoxPro
- Linux (Red Hat®, Ubuntu, CentOS) servers; since 1999
  - Installation, configuration and management
  - Services such as Apache, MySQL, PostgreSQL, PHP, Java, Apache Tomcat and JasperReports
- OOP (Object-oriented programming) languages; since 1996
  - Java
  - PHP
  - C#
  - JavaScript
  - Python
  - C++
  - Visual FoxPro
  - Delphi
- GIS (Geospatial Information System); since 2005
  - Spatially-enabled database servers
  - Google™ Maps API
- Web services; since 2005
  - XML for communicating between devices and computers
- Version Control; since 2011
  - Subversion with TortoiseSVN
  - Git with TortoiseGit
- Tools for Testing
  - HP Fortify (security analysis)
  - BrowserStack (platform analysis)
- Issue & Project Tracking; since 2011
  - JIRA to manage work with Software Testing & Quality Assurance Groups.
- Development Tools
  - JetBrains IntelliJ IDEA 2017
  - Visual Studio 2015
  - JetBrains ReSharper 2017
  - JetBrains PyCharm 2017
  - JetBrains PhpStorm 2017
  - NetBeans IDE 8.1
  - JetBrains DataGrip 2017

## Open-Source Projects

- *JEquity* (<http://jequity.sourceforge.net/>); JavaFX application for tracking equity and stock values.
- *BeoZip* (<http://beozip.sourceforge.net/>); Java application that backs up data into Zip files while also providing additional archiving utilities.
- *PolyJen* (<http://polyjen.sourceforge.net/>); Java application that predicts chain-growth polymerization (specifically oxyalkylation) reactions while minimizing expensive laboratory experimentation.
- *Trash Wizard* (<http://trashwizard.sourceforge.net/>); C# application that helps in maintaining your hard drive space.
- *BeoBasis* (<http://beobasis.sourceforge.net/>); Java library for use by other Java Swing applications and Java servlets.
- *JAS Carousel* (<http://jasca.sourceforge.net/>); JavaScript library that is a carousel which takes advantage of jQuery / jQuery UI and re-sizes when the browser window re-sizes.

## Software Projects

- Developer of CodeGeo (<http://www.beoearth.com/content/codegeo>), an application that provides advanced geocoding.
- Co-creator / co-developer of *QuickTreat*®, a gas treating preliminary evaluation application that helps a company determine the gas treating requirements for their particular process. This program was used by both national and international customers of Texaco Chemical Company and Huntsman Corporation.
- Developer / co-creator of *PaperLIS*, the analytical laboratory information system for Huntsman Corporation's research laboratory in Austin, Texas.
- Developer of *The Circe Project*, a forecasting application used by Huntsman's Marketing and Production department.

## Experience

- |                           |                                 |                     |
|---------------------------|---------------------------------|---------------------|
| • Technatomy Corporation  | Software Web Developer          | Apr 2015 - Present  |
| • Northup Wiley           | Software Developer / Principal  | Jan 2003 - Present  |
| • Huntsman Corporation    | Software Developer              | Apr 1994 - Jan 2003 |
| • Texaco Chemical Company | Software Systems Engineer       | Jul 1987- Apr 1994  |
| • Texaco Chemical Company | Chemist / Technical Service Rep | Sep 1985 - Jul 1987 |

## Awards

- 2016, CEO Outstanding Leadership Award; For Your Exemplary Leadership and Selfless acts of Time and Dedication. Your attention to detail and outstanding work ethics have helped make Technatomy as successful as we are today.
- 2012, Softoxi.com Top Software Awards; *BeoZip*.
- 2001, Huntsman Outstanding Innovations; for program to generate dangerous goods declarations.
- 2000, Huntsman's Exceptional Recognition Award; for modifications to Oracle supplemental project.
- 2000, Huntsman Outstanding Innovations; for creation and development of *The Circe Project*.
- 1999, Huntsman Outstanding Innovations; for creation and development of *Form Beowulf*.
- 1998, Huntsman Outstanding Innovations; for enhancements of Oracle supplemental project.
- 1997, Huntsman Outstanding Innovations; for creation and development of Oracle supplemental project.
- 1995, Huntsman Outstanding Innovations; for creation and development of *PaperLIS*.
- 1994, Texaco Special Innovative Contributions; for creation and development of *The Legal Tracker*.
- 1993, Texaco Special Innovative Contributions; for creation and development of *The Product Dossier*.
- 1993, Texaco Special Innovative Contributions; for creation and development of *QuickTreat*®.
- 1992, Texaco President's Award Nomination; for creation and development of *QuickTreat*.
- 1989, Texaco Best Quarterly Performance Nomination; for contribution to *Thermo*.

## Education

- |                       |  |            |
|-----------------------|--|------------|
| • University of Texas | B.S. Chemistry, 1985   | Austin, TX |
| ◦                     | <i>Nominated to Phi Kappa Phi Honor Society for graduating top 10%</i> |            |
| • Duke University     | B.A. Chemistry, 1983   | Durham, NC |

## **Technatomy Corporation**

*Software Web Developer*

April, 2015 – Current

- LAMP/WAMP Web development for Federal government programs.
- ASP.NET Web development for Federal government programs.
- Java Spring MVC / PostgreSQL application development for Federal government.
- Contract proposal writing.
- Public Trust Security Clearance.

## **Northup Wiley**

*Principal / Software Developer*

February, 2003 – Current

We rely on open-source libraries and frameworks to generate our software applications for the desktop, web and mobile platforms. We are also the creative spirit behind [Beowurks](#) and [BeoEarth](#).

- Developed GIS applications using PHP / JavaScript / Java / jQuery / AJAX with Google maps and spatially-enabled database servers while following the standards behind OpenGIS®.
- Developed CodeGeo, an advanced geocoder (<http://www.beoearth.com/content/codegeo>).
- Developed open-source projects ([full life cycle](#)).
- Developed client / server applications using Java and .NET (full life cycle).
- Developed web applications using .NET / JavaScript and PHP / JavaScript / Java / jQuery / AJAX (full life cycle).
- Developed database systems using PostgreSQL, MySQL, Apache Derby and Microsoft SQL Server.
- Developed content management systems (CMS) using Drupal and Drush.

## **Huntsman Corporation**

*Software Developer*

April, 1994 – January, 2003

- Developed client / server and PC LAN software while responsible for full life cycle of each project.
  - Developed applications for accounting, administration, advertising, chemistry, environmental, health & safety, legal, maintenance, medical and Huntsman North America.
  - Developed with C++ Builder, Visual C++, Delphi, Visual FoxPro, and FoxPro for DOS.
  - Used database systems such as FairCom Server/Red Hat® Linux®, Oracle/UNIX and FoxPro/Novell LAN.
- Supervised technical writer.

## **Texaco Chemical Company**

*Software Systems Engineer*

July, 1987 – April, 1994

- Wrote programs for IBM PC's / compatibles, Data General MV-20000, and IBM RISC/6000 using Turbo Pascal, FoxPro, CQ/CS, FORTRAN, 80x86 Assembly, and Turbo C.
- Became a system manager for the Data General and the IBM RISC PowerStation.

## **Texaco Chemical Company**

*Chemist / Technical Service Representative*

September, 1985 – July, 1987

- Designed projects and tests for company products and solved scientific and practical problems involving polymer chemistry for customers in the Southeast U.S.
- Supervised the operation of a pilot-scale, polyurethane slab foam machine, the construction of a multi-stream, low-pressure catalyst machine and two technicians
- Designed and created programs for polyurethane foam customers using Borland's Turbo Pascal.