# Summary

I am a multifaceted software engineer, web developer, and computer scientist interested in a full time software development engineering role.

# Skills

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Apache Tomcat | C/C++ | C# | ClearCase | CVS | Eclipse | FORTRAN | Genetic Algorithms | Git/  Github |
| IntelliJ | Java | JSON | Linux | LISP | Machine Learning | macOS | Middleware  Talarian/TIBCO | MySQL |
| Netbeans | Neural Networks | Oracle | Pascal | PL/SQL | Prolog | Python | Shell Scripting | Solaris/SunOS |
| SQL | SVN | T/SQL | Technical  Writing | Visual Studio/Code | UNIX | Windows | XCode | XML/SOAP |

# External Links

* LinkedIn: <https://www.linkedin.com/in/wfgilreath/>
* GitHub: <https://github.com/wgilreath>
* Home: <https://wgilreath.github.io/WillHome.html>

# Freelance Work

**Freelance/Independent Software Developer — Picayune, MS**

**November 2006-May 2014**

* Porting legacy code to more modern languages such as FORTRAN, Pascal to Java, C#.
* Implementing custom programs, tools, and utilities for the macOS, Windows, Linux.
* ZIP data utility in Java used to archive Oracle database information.

**Independent Technical Author, Kluwer/Springer-Verlag — Picayune, MS**

**March 2002-February 2003**

**WILLIAM F. Gilreath**

503-602-7495

**william.f.gilreath@gmail.com**

345 Commercial Street NE

Salem, Oregon 97301

* Lead author with Dr. Phillip A. Laplante, "Computer Architecture: A Minimalist Perspective.”
* Researched the technical material relating to computer architecture and engineering for the text.
* Created programs in C, assembly language to demonstrate computer architecture principles.

**Java Consultant/Developer, J.R. Simplot Company — Boise, ID**

**February 2002-June 2002**

* Rewrote and translated existing code to Java for several in house applications.
* Developed in conjunction with other developers a Java applet for interactive data visualization.
* Created documentation for training and education with Java using UML.

**Technical Contributor/Review Editor, Packt Publications — Mumbai, India (remote work)**

**January 2019-July 2019**

* Technical Contributor "Java Data Structures and Algorithms" technical assessment questions.
* Technical Contributor "Java Fundamentals" technical assessment questions.
* Review Editor "Professional Javascript" checking, evaluation, and testing of source code.

# Professional Experience

**Web Content Editor/Writer, Hummingbird Innovations — Happy Valley, OR**

**September 2019-currently**

* Research material from various online sources articles, blogs, books, research papers.
* Author content in Wordpress template and edit content, template for best quality.
* Resolve any content issues or web issues in accessing and viewing content in JavaScript.

**Program Graduate New Life Fellowship, Union Gospel Mission — Salem, OR**

**September 2015-September 2018**

* Graduate of the New Life Fellowship (NLF) program to recover from homelessness.
* Computer support for front-desk, computer laboratory, staff computers.
* Developed web app to e-mail evaluations from form to staff.

**Software/Database Engineer, Planning Systems, Inc. — Stennis Space Center, MS**

**June 2006-November 2006**

* Administration of information on MySQL database meteorological data on Linux server system.
* Developed Java application library for database management utilizing JDBC database driver.
* Wrote data population application with Java and shell scripts for raw data transfer from database.

**Firmware/Software Developer, Hewlett Packard/Adecco Technical — Boise, ID**

**March 2001-February 2002**

* Webmaster of Apache Tomcat web server installed for development of web apps, tools, and utilities.
* Build printer firmware and debug failed builds on a distributed build system using C/C++.
* Development of HTML forms, web pages, CGI scripts, JavaScript libraries for web apps and tools.

**Software Engineer, Micron Technology — Boise, ID**

**June 1999-November 2000**

* Developer for middleware manufacturing communication system using TCP/IP and UDP protocols.
* Developed and assisted in database development on Oracle, Sybase in PL/SQL and Transact SQL.
* Instructor for training classes for XML and corporate apps/libraries.

**Lead Research Assistant, Computer Science Department Mississippi State — Starkville, MS**

**July 1996-December 1996**

* Lead for research project with professor, students in machine learning project for military application.
* Developed, tested, and maintained C/C++ code for neural network/genetic algorithm.
* Graduate courses in artificial intelligence: neural networks, genetic algorithms, simulated annealing.

# Education

* Mississippi State University, Starkville, MS — Bachelor’s of Computer Science, 1998.
* Nova Southeastern University — Graduate coursework for Masters in Computer Science, 2006