

# Judy Gibson

## SOFTWARE DEVELOPER

(412) 407-7362

[judythgibson@gmail.com](mailto:judythgibson@gmail.com)

<https://www.linkedin.com/in/judythgibson/>

<https://github.com/JudythG>

<https://judythg.github.io/index.html>

### SECURITY CLEARANCE

Top Secret / Sensitive Compartmented Information with a Counterintelligence Polygraph, 2004 – 2014

### PROFESSIONAL SUMMARY AND SKILLS

Returning Software Developer with a proven track record of diving in and learning software systems quickly. Full stack experience from Sabio bootcamp and Host A Fan internship in the following: React, JSX, JavaScript, jQuery, Bootstrap, HTML, CSS, .NET, C#, Axios, AJAX, RESTful APIs, Formik, Material-UI, Yup, Microsoft SQL, Chrome DevTools, JSON, Bootstrap, Git, and GitHub. From my years as a C++ Object Oriented developer, I have some experience with Unified Modeling Language, SQL, Sleepycat Software, Berkeley DB, boost C++ libraries, assembly language, Red Hat Linux Firewalls, Install Shield, MKS Source Integrity, multi-threading, as well as Link-16's 1553 bus hardware. Excelled in two Java courses at George Mason University and am currently taking a Python course and a JavaScript course through Udemy. Looking for an entry level or junior position that can utilize my programming abilities and expand my skills.

### EXPERIENCE

**Host A Fan**, April 2021 – July 2021

*Full Stack Developer*

Host A Fan provides online social media services that connect users with a range of hosted events, services and amenities.

- Established a content management system that allows administrators to dynamically customize newsletters
- Developed code to convert the JSX form of the newsletter to HTML
- Implemented code across React and .NET to e-mail newsletters to users
- Created components with Material-UI and Yup to receive and validate inputs on forms that update newsletter content.
- Implemented a full-stack flow of data from a React Axios front-end service provider, through a .NET middle tier, and to a SQL back-end.
- Created SQL procedures that implemented join functionality, depended on user-defined tables, and provided a batch insert for newsletter content
- Participated in peer code reviews and debugging sessions.

*Technologies/Tools:* HTML, CSS, JSX, React, Chrome DevTools, C#, .NET, SQL, Axios, RESTful APIs, Postman, Bootstrap, Formik, Yup, Material-UI, GIT

**Published Author**, 2009 – March 2021

*Fiction Writer*

**AT&T Government Solutions**, 2007 – 2012

*Software Engineer*

The Weapon Activated Combat-Assessment Toolbox (WAC-AT) messaging system transmits data to applications that can calculate probability of kill for different weapons

- Implemented the multi-threaded C++ application
- Applied design patterns to create enhancements to the system

*Technologies/Tools:* UML, Enterprise Architect, C++, Microsoft Visual Studio, boost libraries, TCP/IP, SQL

## **Avtec Systems, 2000 – 2006**

### *Software Developer*

The Operational Performance Simulator system calculates transmission delays, caused by environmental factors such as weather, between actors in all four dimensions (land, sea, air, and space)

- Developed Frequency of Arrival (FOA) and Area of Interest (AOI) geolocation algorithms
- Implemented code in Matlab to share data with the Naval Postgraduate School Geolocation Workbench
- Coordinated with a mathematician to add covariance calculations
- Proposed, designed, and implemented a code modification to fix a recurring error with input files

The AT3 project compared two competing Link-16 communication designs

- Revived, reviewed, and debugged the AT3 code that simulated Link-16 communication methodologies to evaluate throughput, latencies, and delays

The OrbComm component controls data transmissions between satellites and a ground station

- Reviewed and debugged assembly language code to correct data transmission errors

*Technologies/Tools:* Microsoft Visual C++, MKS Source Integrity, Windows, Free BSD, Assembly Language

## **DTM Research, 1998 – 2000**

### *Software Developer*

DTM Project

- Maintained and enhanced applications that used data mining and data warehousing techniques for very large database (4 – 10 terabytes) system clients
- Designed and implemented a tracking system to maintain metadata on client documents

*Technologies/Tools:* Sleepycat Software, Berkeley Database, C++, Unix

## **American Management Systems, 1993 – 1998**

### *Software Programmer*

Encoder Grouper is a medical information management system used by a worldwide network of military hospitals and clinics

- Maintained and enhanced the GUI user interface
- Implemented code to determine Current Procedural Technology (CPT) codes from International Classification of Diseases (ICD-9) codes

*Technologies/Tools:* C++, Windows

## **EDUCATION**

**Modern JavaScript From the Beginning**, Udemy

**100 Days of Code: The Complete Python Pro Bootcamp for 2022**, Udemy

**Sabio Coding Bootcamp**

**Object-Oriented Java Courses**, George Mason University

**University of Pittsburgh**, B.S., Computer Science