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| Tyler Hooks | [tph1994@gmail.com](mailto:tph1994@gmail.com) |
| 478-299-4259 |
| Chandler, AZ 85224 |
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**Skills**

**Languages:** Python | Bash | PL/SQL| Transact-SQL | C++ | Perl | Regular expressions

**Tools and Software**: Azure DevOps Server | Git| Bitbucket | VMware Workstation | VirtualBox | Microsoft SQL Server | Oracle SQL Developer | Agile | Jupyter | Microsoft Excel | Microsoft Word

**Operating Systems**: Windows 7, 8, 10, and Server | Debian | MacOS | iOS | Kali Linux

**Personal**: Inquisitive | Autodidactic | Meticulous | Tenacious | Analytical

**Experience**

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| **General Motors** | Chandler, AZ | Supervisor: Brid Dower |
| Software Developer |  | (480) 738-7911 |
| 01/2019 – Present |  |  |

* Designed, created, and implemented software in Python, Bash, and SQL.
* Created Bash scripts to automate developer work, such as expediting a customer data integration process, and server-related tasks and procedures, including test script initiation, data creation and retrieval, and disk cleanup to preserver server space.
* **Projects**
  + Automated a ticketing system which utilized Microsoft Exchange Web Services via the exchanglib library in Python, which allowed tickets to be automatically generated and submitted through regex-based text extractions from emails and provided a more elementary ticket submission process.
  + Created a system in Python by which complex relational data was randomly generated to simulate customer data for quality assurance testing in the absence of production data due to corporate restrictions on customer data. The system implemented an object-oriented approach in which database tables were represented as classes, columns were represented as class attributes, and a data dictionary was utilized to obtain the parameters for each definition of data, which were randomly generated to simulate real customer data and add variance for QA testing. A method to generation SQL was written in each class and utilized the cx\_Oracle module to execute the generated statements. Metaprogramming concepts were also utilized to expedite the creation of class definitions.
  + Worked on an insourcing team instructed to provide an in-house solution to a formerly outsourced data collection agency. Analyzed and reverse-engineered SQL and Bash files and modified them to work on company software; created and ran jobs in AutoSys; wrote scripts to automate database connections and generate JIL files for AutoSys jobs.
  + Automated various task-related procedures in Azure DevOps Server (formerly known as Microsoft TFS) for requirements analysts working on the California Consumer Privacy Act project using Python’s Selenium library in tandem with JavaScript and the XML Path Language by which a Microsoft Excel document was parsed using the Python pandas library to read the values of and perform various actions on ADS tasks and subsequently generate and insert log data into a newly formatted Excel spreadsheet.
  + Created a multifunctional Bash script for a DataStage server which combined encryption, compression, formatting, SFTP, and archiving functionalities for developers to access through a single, argument-driven script – which expedited DataStage job development by removing the necessity of calling multiple commands and providing a simple command-line tool by which process could be selectively executed.
  + Reverse-engineered Perl and SQL scripts which initiated the dealerization process involving file manipulation and various database procedures for a marketing campaign project; wrote various scripts in Perl, Python, and Bash to run, test, and validate these processes.
  + Assisted with the creation and integration of a REST API written in C# which scrubs customer data via a web service provided by Gryphon marketing services.
  + Assisted with the debugging and writing of various web applications using the Angular framework for GM dealer reimbursed marketing programs (DRMP).

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| **Wise Computer Solutions** | Swainsboro, GA | Supervisor: Calvin Close |
| Data Analyst |  | (478) 289-6607 |
| 05/2018 – 08/2018 |  |  |

* Prepared business intelligence reports and data graphs for clients using Microsoft Access, Microsoft Excel, and Microsoft SQL Server.
* Designed, created, and maintained databases and database applications using Microsoft SQL Server and Microsoft Access.
* Composed SQL queries to read, alter, and analyze databases.
* Used Entity-Relationship Diagrams and SQL queries to identify, troubleshoot, and ameliorate database issues, and provide data integrity and assurance for clients.
* Scraped and parsed various sources of data using Python and wrote scripts to cleanse and organize data, generate graphs, SQL queries, and Excel sheets, and connect to databases.
* Reverse-engineered pre-existing databases and procedures in Microsoft SQL Server and created analysis tools and reports based on them.

**Education**

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| **Georgia Southern University College of Engineering and Information Technology** | **Statesboro, GA** |
| Bachelor of Science in Information Technology | December 2018 |
| Specialization in Information Management | Magna Cum Laude |
|  | GPA: 3.87/4.0 |
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| **East Georgia State College** | **Swainsboro, GA** |
| Associate of Arts in Psychology, Associate of Arts in Sociology | December 2015 |
|  | Summa Cum Laude |
|  | GPA: 3.96/4.0 |

**Honors and Awards**

* General Motors 2019 Arizona Innovation Center Top Coder competition, 2nd Place
* General Motors 2019 Arizona Innovation Center Hackathon, 2nd Place
* President’s List, December 2012 – December 2015; May 2018
* Dean’s Merit List, December 2016 – December 2017
* HOPE Scholarship recipient, Fall 2012 – Spring 2014
* Outstanding Scholar Award, Spring 2018