**Michael Fitzgerald**

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**DATA ANALYST**

Over eight years of experience using Python, Advanced Excel techniques, and other tools to improve productivity in systems and policies and gain valuable insight into customer performance. Able to spot valuable business insights based on collected data.

**SKILLS & ACCOMPLISHMENTS**

* **Data Analysis:** Python | Pandas | Matplotlib | Numpy | scikit-learn | SQL | Tableau | Power BI | Git | GitHub
* **Web Development:** HTML | JavaScript | Photoshop | Inkscape
* **Advanced Excel:** Excel expert who develops productivity- and efficiency-focused tools
* **Android Development:** Java | XML | UI | UX | Git | GitHub | Photoshop
* **Project Management:** Experience managing multiple overlapping projects on time and on budget.
* **Game Design:** Developed a complex survival fantasy Tabletop Roleplaying Game
* **Chinese:** Utilize language skills as a real-time interpreter and video game translator
* **Korean:** Utilize languages skills at work to facilitate communication between coworkers
* **Accomplishment 1:** Developed and deployed my own website in order to improve my efficiency as a Gamemaster for Dungeons and Dragons.
* **Accomplishment 2:** Developed and deployed Python scripts to automate numerous tasks for my job at Dovenmuehle Mortgage, Inc resulting in a 200% increase in productivity.
* **Accomplishment 3:** Implemented semi-autonomous Student Comment Generator resulting in a 50% increase in productivity for teachers at Avalon English
* **Accomplishment 4:** Implemented Google Suite products into the classroom which resulted in over 100% increase in productivity for teachers and students at Avalon English
* **Accomplishment 5:** Implemented advanced Excel spreadsheets for staff and players which resulted in at least a 100% increase in productivity at Nebula Vault
* **Accomplishment 6:** Codified and expressed mathematically system mechanics yielding a 200% to 400% increase in code efficiency at Nebula Vault
* **Accomplishment 7:** Improved onboarding experience for new teachers through re-engineering of roles including the addition of a head teacher position.
* **Accomplishment 8:** Implemented monthly teacher reviews and follow-ups which resulted in an estimated 50% reduction of negative feedback from parents at Better English

**EXPERIENCE**

**Acquisition Analyst** 03/2021 – Present

Dovenmuehle Mortgage, Inc.

*Mortgage subservicer*

Analyze data from clients (banks, credit unions) to ensure data accuracy.

* Took the initiative to develop and deploy Python scripts to automate about 50% of my job.

**Freelance Translator** 04/2018 – Present

Yeehe, Remote

*Chinese video game localization company*

Translated video games, game-related PPTs, and related documents from Chinese to English

* Improved translation productivity by 200% utilizing Python

**English Teacher** 12/2015 – 06/2020

Avalon English, Seongnam-si, South Korea

*For-profit after-school English education through math, science, and language arts*

Taught English to Korean-speaking students using pre-designed curriculum

* Improved student performance through analysis of attendance, homework, test, and participation data
* Identified students in need of extra support using statistics
* Translated raw data into visualizations for monthly reporting and quarterly reporting

**Lead Systems Designer**  03/2014 – 01/2017

Nebula Vault, Remote

*Game design company creating a complex survival fantasy tabletop roleplaying game*

Designed and implemented system mechanics mathematically and in code for TTRPG

* Improved user experience by single-handedly developing the companion Android application
* Identified the best system mechanics using mathematics, statistics, and probability
* Translated complex equations and code into natural language

**Head Teacher** 07/2014 – 08/2015

Better English, Beijing, China

*For-profit after-school English education through language arts*

Middle-level management role in charge of six teachers

* Improved productivity by at least 30% via implementing campus-wide shared material storage
* Improved new teacher training by creating orientation and training materials

**English Teacher** 03/2013 – 06/2014

Better English, Beijing, China

*For-profit after-school English education through language arts*

Planned and taught lessons based on textbook

* Improved student performance through analysis of attendance, homework, test, and participation data
* Translated raw data into visualizations for monthly reporting and quarterly reporting

**EDUCATION**

**Bachelor of Arts,** Economics, Carthage College, Kenosha, Wisconsin Graduated 2012

*Econometrics-focused Senior Thesis*

* Developed a multivariate linear regression model to discern the determinants of software piracy
* Translated data into visualizations using Excel to better communicate findings

**IBM Professional Data Science Certificate,** Coursera, Remote Certificate Earned 08/2020

*Course on the fundamentals of data science with a focus on Machine Learning*

* Visualized database with Seaborn and Matplotlib for feature elimination
* Used statistics to further refine feature selection
* Developed a forecasting model to predict the severity of car accidents using Python, Pandas, and scikit-learn

**Complete SQL + Database Bootcamp**, Udemy, Remote Certificate Earned 11/2020

*Course focused on SQL, from its history to advanced queries*

* Worked with PostgreSQL, Valentina Studio, command line, and Power Shell