

Masteri Thao Dien  
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# Matthew Bailin

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## PROFESSIONAL EXPERIENCE

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**Owlytics** – *Web Developer and Data Analyst*; Barcelona, Spain

*Aug 2021 – Present*

- Owned the entire fullstack development of a number of apps for use in project management, financial planning, database management, and data engineering. Designed and tested REST APIs and microservices that would allow users to receive, modify, and delete data seamlessly. App development time reduced from three months on average to one month on average.
- Also involved with data analysis projects that would involve regression analysis, k-clustering, Kaggle reports, and ETL (extract-transfer-load) procedures. Wrote a script in R that automated a daily build of a hospital's patient records and saved that build on GCP (Google Cloud Platform), reducing the time spent needing to update these records by at least 90%.

**ELGL** – *Data Analyst*; Portland, Oregon

*Sep 2011 – Dec 2013*

- Analyzed data for a small government nonprofit in Portland, Oregon that coordinates meetings for local government professionals. Used data analysis and economic theory to help ELGL design payments structure that increased annual revenue by roughly 60%.
- Used Microsoft Excel and SQL to preprocess, clean, analyze, and present data. Generated roughly 200 reports using a variety of SQL queries in order to aggregate government record data based on median income, race, and education, among other factors.

## PROJECTS

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### Bugtracker

- Software is a fullstack project management tool similar to Monday.com or a similar CRM. Software logs, assigns, and manages a record of bugs in an organization's software development lifecycle. Tickets, users, and sub-projects are linked together using SQL-like business logic. Metrics on the number of tickets per month, the number of sub-projects, the monthly percent change in the number of tickets, and the daily completion of assigned tickets are tracked on a custom-built dashboard.
- Project uses React and Javascript for the frontend and Google Firebase for the backend, using a NoSQL database also written in Google Firebase.

### Ecommerce App

- Software is a fullstack ecommerce solution that allows users to browse through a collection of items, search/filter for items, and load items into a cart to be checked out. Interface is modernized through the use of Redux and React hooks. The user then is able to pay for their items using Stripe API.
- App is secured using JWTs (JSON Web Tokens).
- Project uses the MERN stack (MongoDB, Express, React, Node.js) as well as Redux for managing state.

## EDUCATION AND CERTIFICATIONS

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**Western Governors University** – Salt Lake City, UT

**School of Information Technology** - *Bachelor of Computer Science*

*June 2022 – Present*

**Willamette University** – Salem, OR

**School of Liberal Arts** - *Bachelor of Economics*

*August 2007 – May 2011*

**Udacity - Fullstack Web Development**

**Google - Data Analytics Specialization**

**SAS - Certified Specialist: Base Programming**

## TECHNOLOGIES

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- Frontend:** React, HTML, CSS, Javascript, Bootstrap, Vue.js, Nuxt.js
- Backend:** Flask/Django (Python), SQLAlchemy, Node.js, Express, Google Firebase, Google Cloud Provider (GCP), C#(light)
- Databases:** PostgreSQL, Pyscopg2, Alembic, MySQL, Microsoft SQL Server
- Authorization/Authentication:** JWT, Auth0, Google Firebase
- CD/CI:** Docker, AWS, Kubernetes
- Testing:** Postman, Jest