

# Thomas Milton Maestas

## Full-Stack Software Engineer

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I am a full-stack software engineer with a background in social statistics, data visualization and website development. I specialize in data-focused software development with a deep understanding of Java, JavaScript- and Python-based tools and frameworks, especially AWS and GCP RESTful API microservices. My work experience spans the full product development life cycle from Proof-of-Concept to General Audience release--using test-driven, team-based Agile/Scrum methodology. In sum, I work with passion, learn fast, and thrive on exceeding expectations.

### Skills

- **Java:** Spring Boot MVC-Data, Hibernate, JDBC
- **Python:** NumPy, Pandas, Matplotlib, TensorFlow2 A.I.
- **JavaScript:** ES5, ES2015+, TypeScript, Unit/E2E tests, D3js
- **UI Frameworks:** Angular 8, ReactJS, AngularJS; Python Flask, Django
- **Environments** Linux, PowerShell, MS-DOS, Docker, SSH, Git
- **Data Analytics :** R, ggplot2, Python, plotnine; Stata, SPSS
- **Cloud:** AWS SDK/CLI fluency, GCP-Firebase, MongoDB Atlas
- **Server-side API:** Node.js, Python scripts, Swagger, Postman API Testing
- **Relational Data:** Oracle PL/SQL, MySQL, PostgreSQL; AWS Aurora

### Professional Experience

#### Full Stack Software Engineer

November 2019 to Present:

I am a full-stack software engineer with a background in social statistics, data visualization and website development. I have a deep understanding of object-oriented programming syntax and design aimed at a modular, reusable code-base, prioritized by security best practices. My programming career goals include continuous learning in a team setting in order to contribute to efficient, well-documented and dependable projects.

#### Software Consultant (Client Job Title: Software Engineer)

May 2018 to April 2019: Rural Sourcing - Albuquerque, NM

My duties over 11 months period involved building out the GUI application for a (formerly) command-line-only data application, using AngularJS/Kendo and RESTful API microservices using HATEOS (Hypermedia As The Engine of Application State). As a team, I communicated with the SyncSort engineering team daily and 5 morning stand-ups/week via Skype-based, Agile-Scrum meetings using a Confluent Jira storyboard in a 7-person full-stack team; I completed 4-5 sprint tasks per week: REST API and UI/UX coding, trouble-shooting, testing, adding new features; substituted for senior software engineer for 3 weeks, overseeing a successful GA release.

#### Front-End Software Developer

July 2017 to Jan. 2018: TMM (contracting for Xpansiv Data Systems) - Albuquerque, NM

I helped develop a React/Node.js-based UI/UX data-intensive app, styled with Material Design. Daily team-based workload involved client-side data logic and using creative problem-solving toward accomplishing a successful proof-of-concept. In addition, I provided JavaScript-D3js data visualization for the product.

### **Social Statistics Teaching Assistant**

Aug. 2016 to Nov. 2016: Université de Montréal, Sociology dept - Montréal, Canada

My PhD studies included quantitative data analysis, including linear regression techniques. I also worked as a Teaching Assistant for 2 100-level research methods courses, with lab and office hour duties. All work and program duties conducted in french-only setting.

### **Program Evaluator Contractor**

Jan. 2016 to May 2016: Pivot Evaluation - Albuquerque, NM

Program evaluator role duties included interviews of program participants, survey data collection and analysis, and website UI/UX contributions.

### **Research Assistant**

Sept. 2013 to Mar. 2014: Statistical Analysis Center at UNM Institute of Statistical Research

Project duties included database queries of confidential data for State, County, and City-funded projects; this included the data collection, cleaning, analysis, and reporting. I completed several federally-funded STEM grant performance reviews, and I proudly helped edit and co-author institute-published reports.

## **Education**

### **M.A. Sociology (Statistics focus)**

**University of New Mexico** - Albuquerque, NM

Dec. 2015

### **B.A. History**

**University of New Mexico** - Albuquerque, NM

Dec. 2001

## **Computing Groups**

### **ABQ\_Python**

2018, 2019

Monthly Python Meetup, including live-coding presentations and discussion on theme. Among other projects, I completed a Flask data app.

### **Albuquerque AWS Meetup**

Nov. 2018, 2019

Monthly meetings focus on AWS services. Live-coding topics include Rekognition, Lambda functions, API Gateway with S3, and others. At each meeting I completed a new project.

## **Volunteer Service**

### **Regional Judge — CNM STEM Science & Engineering Research Challenge**

March 2019 - Duties include criteria-based scoring on scientific method and communication

### **Debate Judge — Cave Classic Speech & Debate Tournament**

Jan. 2018, 2019 - Duties include criteria-based scoring, advisement, mentorship for high schoolers

## Certifications

**2020: AWS Certified Solutions Architect Associate, #3VQN72H2HB14QW9DI**

**2019: AWS Amazon Web Services Developer Associate, #89ZEC9E1FFE1QTWR**

**2019: AWS Cloud Economics Certificate**

**2018: AWS Partners Network Technical Professional**

## Coding Assessments

### Python 3 Proficiency

[https://thomasmaestas.net/dist/docs/IKM-Exam\\_Python3.pdf](https://thomasmaestas.net/dist/docs/IKM-Exam_Python3.pdf)

### React/React Native Proficiency

[https://thomasmaestas.net/dist/docs/IKM-Exam\\_React\\_React-Native.pdf](https://thomasmaestas.net/dist/docs/IKM-Exam_React_React-Native.pdf)

### Angular Proficiency

[https://thomasmaestas.net/dist/docs/IKM-Exam\\_Angular2.pdf](https://thomasmaestas.net/dist/docs/IKM-Exam_Angular2.pdf)

### Critical Thinking — Expert

[https://share.indeedassessments.com/share\\_assignment/1gdelphlfqxruqo](https://share.indeedassessments.com/share_assignment/1gdelphlfqxruqo) (Indeed exam)

### Data Analysis — Expert

July 2019 (Indeed exam) Measures a candidate's skill in interpreting and producing graphs, identifying trends, and drawing justifiable conclusions from data. Full results:

[https://share.indeedassessments.com/share\\_assignment/gedtigzvsfs6k](https://share.indeedassessments.com/share_assignment/gedtigzvsfs6k)

## Big Data and Cloud Skills

Training through AWS Partners Network since November 2018, through former employer. I am proficient in command-line SDKs and CLI and PowerShell in both Python (Boto 3) and Javascript. I have experience building several applications using both server-based and serverless function-based AWS and GCP-Firebase data services, including the following:

### GCP Firebase Firestore Database

Experience with configuring real-time database for use with federated authentication.

### DynamoDB

In conjunction with Lambda functions and API Gateway, experience reading and writing data, calculating throughput, and setup of data streams.

### Amazon Kinesis

Facility setting up streaming data sources and consumers provisioned with appropriate sharding, with focus on security and setting IAM roles and permissions.

### Amazon Elasticsearch

Experience with secure and service deployment, and facility using Kibana interface.

### Amazon Rekognition & SageMaker

Experience with machine learning deployment using CloudFormation, and facility with YAML.

## Additional Information

- Fluent in French
- Proficient in Spanish