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, #3VQN72H2HB14QW9Dl

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

React/React Native Proficiency
https://thomasmaestas.net/dist/docs/IKM-Exam_React_React-Native.pdf

Angular Proficiency
https://thomasmaestas.net/dist/docs/IKM-Exam_Angular2.pdf

Critical Thinking — Expert
https://share.indeedassessments.com/share_assignment/1gdelpthlfqxruqo (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/gedtigzvslszfs6k

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