

# Thomas M. Maestas

## Full-Stack Software Engineer

[thomasmaestas.net](https://thomasmaestas.net) | Pittsburgh, PA

I specialize in data-focused, full-stack software engineering, by integrating my MA-level training in quantitative analysis with my fluency in Java, Typescript and Python; for this reason, I intimately understand the logical underpinning of any Spring, Node or Flask full-stack framework. I use my AWS/Linux certifications to write custom API endpoints with attention to semi-structured data and data types, whether microservice custodial data or 3rd party API pipelines. My 8 years in Tech spans the full product development life cycle--from Proof-of-Concept creativity--through fast iterations of improvement and regression testing--to General Audience release. I'm a rapid self-learner while adhering to limited scopes of research fit for a deadline-oriented coding velocity, usually within Agile/Scrum-based settings. In sum, I work smart, learn strategically, and thrive on exceeding expectations.

- **Server-Side:** Java 8-21, REST and Queue-based solutions, Maven/Gradle builds, NodeJS, Docker
- **Microservices and Middleware:** Linux/Unix, PowerShell, AWS CLI/SDKs, IBM MQ, Kafka, Rabbit MQ
- **Database:** Microsoft SQL Server-Transact SQL; Oracle-PL/SQL, MySQL; MongoDB, AWS DynamoDB
- **Front-End:** JavaScript, TypeScript, Angular 18, React 16, Bootstrap, SPA and Web components
- **Integration-, API-, and Performance-Testing:** Selenium, Karate Automation SDET, JMeter, SoapUI, Git

## Professional Experience

### Senior Software Engineer

July 2024 to Present: eNGINE (Bank of New York Mellon), Pittsburgh, PA

- Worked with the team to maintain and design modernization refactors to data-intensive applications.
- Created custom Java-based and Angular-based full-stack internal applications to solve employee-based tasks and automated/repetitive responsibilities; with use of internal A.I. applications.
- Developed and refactored IBM MQ and other event-based apps, including Kafka and Mail APIs.
- Worked closely with adjacent teams, including documentation, QA, and data ETL.

### Java Engineer

November 2022 to June 2024: Tek Systems (PNC Bank), Pittsburgh, PA

- Engineered custom Java-based solutions for app development requiring enterprise-level standards, fit for a large financial institution.
- Worked with the team to help design a json-based proof-of-concept to live data stages, development and testing, and eventual release.
- Developed and refactored Java REST and event-based apps, including Kafka and Mail APIs.
- Problem-solved using Full-Stack experience: from writing Angular tests to writing DB views.
- Wrote bash/python scripts for ad-hoc testing, and to enhance productivity and minimize future rote tasks.

### Automation Engineer

March 2020 to September 2022: Accenture (PNC Bank), Pittsburgh, PA

- Collaborated with developers to upgrade and optimize relational-to-NoSQL database conversions for two clients in financial services industry.
- Developed and refactored Java middleware and conducted functional, regression, and performance testing to optimize decoupled, modular architectures.
- Supervised test automation engineers to ensure production-ready reliability and performance.
- Proactively problem-solved cross-team issues, such as automating Mock-API microservice testing.

- Authored forward-looking automation bash scripts to enhance Jenkins Pipeline test-driven builds.

## Full Stack Engineer

November 2019 to March 2020: Revature, Morgantown, WV

- Integrated server-side logic using Java interfaces, JDBC API, and Oracle PL/SQL and AWS DB Servers.
- Automated Continuous Integration and Deployment with both AWS Code Pipeline and Jenkins.
- Wrote tests using Junit and Angular Protractor to ensure fine-grained adherence to business rules.
- Logged specific layers of error output using Log4JS for complete resolution of bug fixes.
- Created Single Page Applications using JavaScript libraries, along with Angular and ReactJS.

## Software Developer Associate

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

- Co-developed an app migration from CLI-only to Angular-Java GUI data-streaming application.
- Worked with UI/UX Writers/Content designers and management to achieve technical goals and timelines.
- Collaborated with engineers to optimize Angular-RESTful microservice-based application using *Hypermedia as The Engine of Application State* architecture.

## Front-End Software Developer

July 2017 to Jan. 2018: Xpansiv Data Systems, Albuquerque, NM

- Wrote user stories, UI/UX planning and design, along with iterative development for Proof-of-Concept.
- Designed client-side data logic and implemented React-Node.js-based data-intensive app.
- Styled the GUI using platform compatible React with Material Design.
- Coded interactive data visualization graphs using JavaScript libraries and D3js, which accentuated the eventual success of the product's final delivery.

## Certifications

- 2024 AWS Certified A.I. Practitioner Exam, Score: 813/1000, #492505147
- 2020 Linux Professional Institute Linux Essentials Exam, Score: 730/800, #1104290836
- 2020 AWS SysOps Administrator, Score: 828/1000, #MJ1C1FBJJ1F4QRG9
- 2020 AWS Certified Solutions Architect Associate, Score: 861/1000, #3VQN72H2HB14QW9D
- 2019 AWS Amazon Web Services Developer Associate, #89ZEC9E1FFE1QTWR

## Education

- University of New Mexico, M.A., Sociology (Quantitative focus), 2015
- University of New Mexico, B.A., History, 2001

## Language Assessments

- Java 8: IKM Testing 71% - [https://thomasmaestas.net/dist/docs/IKM\\_Java8\\_Exam\\_Result.pdf](https://thomasmaestas.net/dist/docs/IKM_Java8_Exam_Result.pdf)
- Python 3: IKM Testing 73% - [https://thomasmaestas.net/dist/docs/IKM-Exam\\_Python3.pdf](https://thomasmaestas.net/dist/docs/IKM-Exam_Python3.pdf)
- React: IKM Testing 71% - [https://thomasmaestas.net/dist/docs/IKM-Exam\\_React\\_React-Native.pdf](https://thomasmaestas.net/dist/docs/IKM-Exam_React_React-Native.pdf)
- Data Analysis - [https://share.indeedassessments.com/share\\_assignment/gedtigzvslszfs6k](https://share.indeedassessments.com/share_assignment/gedtigzvslszfs6k)

## Additional Information

- Fluent in French
- Proficient in Spanish