



# Jeremy Martinez

SENIOR SOFTWARE ENGINEER · GRADUATE STUDENT

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*"Do what you can, where you are, with what you have, and never be satisfied."*

## Company Recruitment Team

August 4, 2020

PREDATA  
NEW YORK

### Job Application for Machine Learning Engineer

To whom it may concern,

### **About Me**

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I am a senior software engineer with over 5 years of experience currently working at Avalara. I am in my last year of graduate school (part time) striving towards a MS in computer science with a focus on interactive intelligence and machine learning. I am from the Pacific Northwest, having lived the majority of my life in Washington state. Before moving to Seattle, I was living/working in Hamburg, Germany where I started my career in software at a small tech start up, Figo GmbH. I love to travel and backpack, and hope to one day backpack across South America, Africa and Asia.

### **Why Predata?**

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I have a strong interest in financial markets, news, and how this can be leveraged by a machine learning model. One particular course (CS 7646 - ML for Trading) I took recently in my MS program involved modeling a supervised learner based off of past market behavior. This felt incomplete because of how impactful the news is on the stock market. I am fascinated with reinforcement learning as well, and I believe a TD-learning approach could be powerful in training a learner to perform some tasks, like how major events affect our environment. In Predata's products, you don't have the luxury of always seeing the full picture of how certain events play out over the entire lifetime. Temporal difference learning can be advantageous in this field for the reason that it converges with only measuring error at temporal time steps.

### **Why Me?**

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I do not have a deep background in ML, however, I have never had a deep background in any position I've been hired for. When I started at Figo GmbH, I was fresh out of school having zero full time experience. I quickly learned their stack and built out their API testing and CI. When I started at Avalara, I had to learn on the job how to write frontend tests, build out production systems in AWS, dockerize our applications, script and automate a full CI/CD in Jenkins, and more. I am wrapping up my degree with ML/AI at Georgia Tech, and I am confident I can ramp up to speed in whatever is necessary to excel in a ML oriented role.

I have the discipline to learn and perspective to see the full spectrum, that stands out among my peers. I work at a high velocity and am confident that no matter what the task is, I will thrive in accomplishing that task. Predata needs an engineer that can touch all aspects of the stack, but have an passion and deep understanding on how to train ML models. I believe I fit this description and would make a valuable asset.

Sincerely,

**Jeremy Martinez**