

# Zakery Clarke

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<https://zclarke.dev>

## Education

### **Master's of Computer Science**

University of New Mexico 2020-2021

- ❖ Focus in Machine Learning & AI
- ❖ Thesis Research in NLP systems

### **Bachelor's Computer Science**

University of New Mexico 2016-2020

- ❖ Presidential Scholarship & Dean's List
- ❖ Minor in Mathematics

## Work Experience

### **Mr Owl & Dr Owl**

Senior Software Engineer 2019-Current

- ❖ Led development of Advertisement platform and built Bayesian Recommendation Engine
- ❖ Designed ID verification service that saved over \$500,000 in expenses by utilizing facial recognition and Machine Learning techniques
- ❖ Analyzed statistics on a platform with over 1 million users

### **E-Center**

Co-founder & Lead Software Developer 2018-2019

- ❖ Analyzed E-Sports player performance through the use of Convolutional Neural Networks, Object Recognition and Machine Learning systems
- ❖ Created business plan and participated in start-up pitches to secure funding

### **E-TransControl**

Software Developer 2016-2018

- ❖ Created online payment portal to facilitate customer transactions
- ❖ Embedded Processor Development for transmission controllers in modified vehicles

## Projects

### **Natural Language Processing- Thesis Project**

<https://zclarke.dev/thesis.pdf>

- ❖ NLP thesis focused on learning intermediate representations for question answering
- ❖ Uses word vectors, text to text transformers, coreference resolution and other NLP techniques to generate inferred knowledge graphs from a passage of text

### **NM Apartment Advisors Rent Predictor**

[https://zclarke.dev/Apartment\\_Rent\\_Analysis](https://zclarke.dev/Apartment_Rent_Analysis)

- ❖ Created a neural network model with less than 5% error rate to predict rent prices
- ❖ Used ensemble learning techniques to account for sparse sample data

### **Solomon.ai**

<https://github.com/zakerytclarke/solomon>

- ❖ Created tool to automatically clean and visualize data, and build machine learning models
- ❖ Publicly available under open source license

### **Computational Paper**

<https://zclarke.dev/computationalPaper/>

- ❖ Drawing app that utilizes machine learning handwriting recognition
- ❖ Features mathematical equation solving and automatic graphing

## Skills

**Languages:** JavaScript, Node JS, Python, Haskell, Java, C++, C, SQL, MongoDB, No-SQL, Object Oriented Programming, Functional Programming

**Soft Skills:** Communication, Self-Starter, Leadership, Teamwork, Problem Solving, Detail Oriented, Quick Learner, Interested in new technologies

**Techniques:** Machine Learning, Artificial Intelligence, Neural Networks, Natural Language Processing (NLP), Image Recognition, Clustering, Data Science, Data Visualization, Continuous Integration/Continuous Deployment (CICD), HIPPA Certification

**Technologies:** AWS, S3, AWS Cognito, Elastic Beanstalk, Linux, Unity, Express, React, React - Native, Agile/Scrum, Flutter, Git, Github