

Kevin Shen

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Education

University of Waterloo, Bachelor of Computer Science Co-op

2018 - 2023 (expected)

The Knowledge Society

February 2017 - May 2017

Professional Experience

Kinaxis

April 2018 - August 2018

Machine Learning Intern

- Created and presented a patent-pending machine learning prototype to the CEO and senior executives.
- Trained and evaluated time series forecasting models such as DeepAR and LightGBM on customer data.
- Mentored interns on projects that involved sentiment analysis, anomaly detection, and data preprocessing.

Omicron

October 2017 - Present

Co-founder, Lead Developer

- Created fully functional platform to collect hackathon data for analytics (launched at a **150** people hackathon).
- Secured over **\$17k+** worth of sponsorship for over **8** events (**1200+** attendees combined) since inception.
- Hosted one of Canada's first game development hackathons with Red Bull Canada: redbull.com/adrenalan

Bezant

January 2018 - June 2018

Co-founder, Lead Consultant

- Produced investor resources for Sapien Network and Polyswarm (distributed to networks of **40,000+** people).
- Advised Sapien on investor validation, resulting in their initial coin offering raising over **\$11 million** USD.
- The Bezant team joined Coinberry in June 2018 to help drive cryptocurrency adoption in Canada.

Projects

Kaggle Jigsaw Unintended Bias in Toxicity Classification [Top 7%, Bronze Medal]

- Implemented state of the art NLP techniques to detect type of toxicity in online comments.
- Experimented with LSTMs, word embeddings, and efficiency techniques such as sequence bucketing.
- Fine-tuned and ensembled the BERT language model, achieving competition AUC score of **0.94187**.

Kaggle Generative Dog Images

- Used Generative Adversarial Networks (GAN) to generate **10,000** realistic images of dogs.
- Implemented and experimented with cutting edge GAN architectures such as CapsuleGAN, Conditional GAN, and Feature Matching.

Food Ingredient Detection

- Created Pytorch implementation of the paper [Food Ingredients Recognition through Multi-label Learning](#).
- Utilized transfer learning to achieve a comparable F1 score of **40%** with fine-tuned ResNet50.

Musr ([Hack The 6ix](#))

- Tinder "auto-swipe" feature based on real-time brain EEG data collected by the Muse (**75%** accuracy).

AgriGate ([Hack The North, Winner](#))

- Combined satellite data with machine learning to measure value of farmland and predict crop prices.

Knowledgeable in: Git, Docker, Python (*Pandas, Numpy, Scikit-Learn*), Keras, Pytorch, Natural Language Processing (*NLTK, Spacy, Gensim, Gluon*), Jupyter Notebook, Java, Javascript, VueJS, Firebase, MongoDB

Kaggle: kaggle.com/kshen3778 **Hackathon Projects:** devpost.com/kshen3778