Marko Arezina

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SKILLS

Voice Assistants

Actions on Google, Amazon Alexa, Samsung Bixby Premier developer, JOVO framework

Backend

Python (Flask), Node.js, Serverless framework, Postman

Natural Language Processing

Tensorflow / Keras, NLTK, Gensim (Word2vec / Doc2vec)

Web

HTML/CSS, Javascript, React, Gatsby

Graph Databases

Cypher, Neo4j Certified Professional

Tools & Platforms

Google Cloud, Dialogflow, Voiceflow, Chatfuel, Git

EDUCATION

University of Waterloo, Bachelor of Computer Science, Co-op

2019 - 2024

EXPERIENCE

Software Developer Intern @ Mindbliss

June 2019 - Sept. 2019 // Ottawa, ON

▷ Augmented the functionality of the existing mobile app by allowing users to play content from popular smart speakers.

▷ Worked as a Samsung Bixby Premier developer to publish one of the first Bixby Capsules in the new marketplace.

▷ The Capsule was chosen to be featured on the marketplace by the Bixby team.

▷ Designed and developed multimodal Samsung Bixby, Alexa, and Google Assistant integrations.

▷ Developed account linking workaround to allow for Mindbliss's OAuth 1.0 authentication system to work with required OAuth 2.0 protocol.

Freelance Developer @ Vecgraph

Nov. 2018 - Sept. 2019

▷ Worked with DANAMIC to design and develop a programmatic flash briefing for their blog.

▷ Implemented system allowing users to request an email containing links to full articles using account linking.

▷ Created new channels for sponsor impressions via flash briefings and email templates.

▷ Developed core explainable recommendation technology, allowing suggestions for relevant content based on similar concepts and topics.

▷ Consulted with startups at Invest Ottawa regarding voice assistant strategy for marketing and augmenting existing applications.

PROJECTS

Tech News Explorer

▷ Developed an unsupervised learning system to create a network visualization of the news, providing insight into what is being reported and how it is interconnected.

▷ Implemented a Natural Language Processing API to analyze articles, using Doc2Vec ML models and data enrichment with IBM watson.

▷ Wrote graph DB queries (Cypher) to analyze relations and perform community detection.

▷ Created a React.js web app allowing readers to visualize relations and topic clusters.

▷ The project was featured on the Neo4j Blog.

Freshbots.org Lyrics Generator

▷ Created a React.js web app to generate lyrics in the style of over 40 artists, getting about 20,000 unique visitors a month.

▷ Trained an LSTM for predicting rhyming lines to arrange the lyrics generated by a Markov Model. Wrote backend in Python (Flask) and deployed to Google Cloud Functions.

Neuroscience Journals Exploratory Data Analysis

▷ Inspired by Neuralink, I used Pandas, Matplotlib, and Scikit learn to create an exploratory data analysis of over 16,000 Frontiers neuroscience journals.

View All Of My Projects On: markoarezina.com