Mohammad “Chubak Bidpaa” Nazemi

chubakbidpaa@gmail.com | https://github.com/chubek

https://www.linkedin.com/in/chubak-bidpaa-0a3798189/

https://chubek.github.io/resume

Seeking

Data Scientist, Machine Learning Engineering, Automation

Alma Mater

- Ferdowsi University of Mashhad (2012 – 2014)
- JD of Mashhad (2019-2020)

Roles

- Machine Learning Engineer – OctoShrew (Remote) 2020 -> Current
- Automation Specialist – Raven Digital (Remote) 2020
- Freelance Programmer – Self (Remote) 2018 -> Current
- One World LED – Junior Programmer (Remote) 2018 -> 2019

Projects, Skills, and Experiences

- Commercial:

Project	Skill	Experiences	Language	Tools and Techs
Mo Face Recognition and Liveness Detection	Vision	Using Keras and DeepFace to create a liveness detection and facial recognition network. Using Flask to create a fluid backend for a face recognition project. Assessing image quality Did successful unit tests across all modules. Good API practices such as logging and return codes. Creating facial embedding vectors. Using jQuery to send requests for a simple frontend. Validating user settings for errors. Successfully used a custom network for liveness detection with an accuracy of 97%. Wrote adequately detailed documents.	Python, HTML, JavaScript	Keras DeepFace MTCNN Dotenv Flask imgaug OpenCV Image-Qualiy Flask Numpy
SparrowVoice Convertor	ML Engineering	Using GMM models to convert between voices. Using intermediate GUI systems to create a GUI in Python. Using PyDub, SciPy and Numpy to process sound samples. Extracting feature statistics from sound files.	Python	Sprocket-VC, PyDub DearPyGUI, PyWorld Scikit-Learn SPTK SciPy Numpy
Frontend for OpenAI Jukebox	ML Engineering	Using Jupyter notebook forms to create a GUI. Creating a sound environment for the end user. Dissecting other people's projects.	Python	Jukebox Jupyter Notebook forms
London Tram Arrival Time Predictor	Shallow Learning	Using XGBoost to create a regression model. Selecting the best hyperparameters using Hyperopt paramter optimization. Preparing the script for the end user.	Python	XGBoost Hyperopt Scikit-Learn Pandas
Various Automation tools	Automation, Shallow Learning	Using Selenium and Playwright to automate the browser. "Hacking" the endpoints to receive the target data. Creating CLI tools for the end user. Using OCR to read characters from screenshots. Using Google Maps to get GeoJSON data. Using Docker to containterize and serve systems. Using K-Means clustering to cluster information. Using lxml and XPath to get HTML elements Using Google Cloud Platform APIs to serve the means of the project. Storing data in BigQuery and SQL tables. Doing SEO with Google Analytics and backlinks API. Using Regex patterns to validate data. Used RAKE to get keywords from text.	Python, Go	Selenium Playwright HTTP tools Base64 tools OCR tools XPath lxml Google Cloud API tools Scikit-Learn Regex Tkinter Rake Docker Joblib Pandas PyInstaller

				Go Excel tools Google Analytics
Reddit Scraping and Automation Tool	Web Scraping, Automation	Using PRAW to scrape and automate Reddit. Using Selenium and lxml to scrape pages.	Python, JavaScript	PRAW Selenium lxml Docker Google Cloud APIs (BigQuery, Programmable Search, Sheets)
Potpourri SEO Analyzer	Web Scraping, Automation	Successfully creating a Python package from scratch. Applying object-orieted programming practices. Search Engine Optimization analyzer.	Python	Google API lxml requests regex Concurrency and Parallelism NLTK RAKE BS Parser
Various Deep Learning Training Tools	Deep Learning	Using FiftyOne toolset to sample data. Using Unet to segment imags. Training an original network for Liveness detection. Using Google Colab Pro for cloud computing. Using Google Drive in a novel way. Doing NLP with GloVE embedding vectors. Using original Conv2D and LSTM networks to regress and classify data.	Python	FiftyOne Keras UNet Torch Scikit-Learn OpenCV PIL Numpy SciPy BERT Keras-Segmentation GloVE
Adobe Premiere MOGRT Automation Tool	Automation	Successfully used ExtendScript and CEP panels to get MOGRTs from a Premiere project and set it back. Made a concurrent backend with Sandboxie.	JavaScript, Node.js, ExtendScript, Python	Sandboxie Flask JSON File IO
A series of Machine learning exercises for a course	Shallow/Deep Learning	Writing a Gradient descent algorithm from scratch. Creating an basic Autonomous driving system from scratch. Writing over 60 ML/DL exercises. Using matplotlib to visualize data. Writing loss functions, cost functions, and objective functions from scratch.	Python	Self-created tools Keras Scikit-Learn Pandas Wget Jupyter Notebook Linear Regression Ensemble Methods Logistic Regression

- Personal:

Project	Skill	Experiences	Language	Tools and Techs
Bedlam Noise Apparatus	Adobe After Effects Plugin	Successfully used Adobe After Effects API, OpenGL and GLSL to create a plugin that creates six types of noise.	C++, GLSL	OpenGL After Effects API
Mongoose Jumblator	Encryption	Successfully made a Mongoose plugin which encrypts MongoDB entries and decrypts them back. Did successful unit tests.	TypeScript	Lodash Mongoose Crypto-JS Chai Mocha
The ML Codex	Education	Wrote a few chapters of a book using LaTeX about implementing custom Machine Learning algorithms.	LaTeX	Diction English Fluid Language Helpfulnesss LaTeX skills
Syren Digital Signage	CRUD	Successfully created a digital signage backend with Kotlin.	Kotlin	Spring Framework

Seek Recommendation:

- Felix Quinque: felix.quinque@octoshrew.com
- Tanami Muller: weitzeug@gmail.com
- Steve Schmidt: s.schmidt@shaw.ca

Additional Info

- Willing to relocates
- Willing to work remotely
- Have passport
- Exempt from military service
- Preferred city is Vancouver (Have close relations there)
- Current city is Mashhad
- Vaccinated with Astra Zenka