ALEXANDER GURUNG

SOFTWARE ENGINEER

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EDUCATION

Georgia Institute of Technology Aug. 2018 to Current

B.S. Computer Science 2021

Linguistics Minor

Relevant Coursework: Data Structures & Algorithms, Discrete Mathematics, Object Oriented Programming, AGILE Development, Machine Learning, Computational Linguistics, Probability & Statistics

GPA (Weighted) — 3.88/4.0

Member of Honors Program, The Agency

TJHSST Aug. 2014 to June 2018

GPA (Weighted) — 4.395/4.0

President of Development Club & Linguistics Club

Relevant Coursework: Artificial Intelligence, Mobile & Web App Development

EMPLOYMENT

MONOTTO — Atlanta, GA

Backend/Data Science Developer — June 2019 to Current

- Used NLP and Machine Learning techniques to analyse user transaction data
- Backend development done with LoopBack, NodeJS, Flask, and PostgreSQL in Typescript and Python
- Data analysis done with Pandas, NLTK, Numpy and SciPy in Python

AUTOMATED ALGORITHM DESIGN LAB — Atlanta, GA

Undergraduate Researcher — Jan. 2019 to Current

- Received training in Genetic Algorithms, Machine Learning theory, team-specific frameworks and infrastructure using Python and C++
- Joined the caching sub-team and worked on optimizing cache invalidation
- Currently working on NLP applications and neural evolution

BLTN (STARTUP) — Philadelphia, PA

Lead Software Engineer — Mar. 2019 to Current

- Leading full-stack development for a new music-industry startup
- Working with NodeJS, Firebase, GraphQL, and React to build UI and store user information
- Managing design and engineer teams to make sure development is in-line with project demos and deadlines

PROJECTS

MAKE A FACE – DEEP LEARNING HACKATHON 2018 (1ST PLACE) — Sept. 2018

- Made a web app with 2 other teammates where the goal is for the user to match the given image's facial expression
- Used Convolutional Neural Networks and Haar Cascades to detect faces, emotion, and key facial reference points
- Personally trained the CNN to detect facial reference points using Keras
- Designed an algorithm to determine facial similarity based on reference points

LOCAL NEURAL STYLE TRANSFER – APPLICATION RESEARCH LAB — Sept. 2017 to Apr. 2018

- Created an Android App to transfer image style and content
- Researched modern methods for performing neural style transfer
- Designed/trained my own models using Tensorflow and Python
- Wrote the application using Java and the accompanying Tensorflow libraries

LIGHTHOUSE – HACKTJ 2017 (PALANTIR SOCIAL IMPACT AWARD) — Mar. 2017

- Created a cross-platform app to connect those in need of quick temporary housing in times of crisis with those willing to provide
- Led front-end development using React-Native and assisted back-end development using Flask and MongoDB

SKILLS

LANGUAGES: Python, Java, HTML/CSS/JS, Typescript, Matlab, GoLang, C++, Dart, R
FRONTEND FRAMEWORKS & TOOLS: React, Android, React-Native, Flutter, AngularJS
BACKEND FRAMEWORKS & TOOLS: NodeJS, Flask, LoopBack, SQL/PostgreSQL, GraphQL, Firebase, AWS, GCP
DATA SCIENCE/ML: Numpy, Pandas, SciPy, NLTK, Tensorflow, Keras, PyTorch