## **ABHISHEK BABU**

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## **EXPERIENCE**

## Software Engineering Intern

#### Pārv.ai

## June 2020 - September 2020

Redmond, WA

- Pārv.ai is an Al-based educational platform interacting with various MOOC providers including Udemy and edX (on Azure Marketplace)
- Developed web content using Node.js, React.js, Bootstrap, HTML, CSS, and Azure Web Sites for integration with Azure Active Directory

#### Codel abs Intern

#### **CodeDay**

## July 2020 - August 2020

Remote

- Built a resume classification platform using Node.js, Express.js, Keras and TensorFlow for Python based on potential matching job categories
- Implemented data processing pipeline in TensorFlow using Natural Language Toolkit (NLTK) and regular expression filtration techniques
- Used tokenization and padded sequencing to encode resume data
- Developed a convolutional neural network architecture to generate probability distributions for resume category classifications
- Deployed the data processing pipeline and neural network on the web server to allow users to classify their resumes

## Software Engineering Intern

## **Tata Consultancy Services**

August 2019 - September 2019 

◆ Bellevue, WA

- Developed a .NET Core cross platform application with C# for a Raspberry Pi 4 to snapshot a conference room at regular intervals
- Leveraged Azure Cognitive Services for human detection and facial recognition analysis on conference room snapshots
- Used Azure Table Storage and Blob Storage for time-stamped storage of snapshots and analysis results
- Implemented offline human detection with OpenCV HaarCascade classifiers to optimize API calls, reducing application cost by 90%

## **PROJECTS**

#### **SpotiViz**

# July 2020 - Present

- A web application for users to visualize and analyze their Spotify listening data across variable timeline ranges
- Leveraging Python + Flask + the Spotify Web API for user authentication and data retrieval, and Bootstrap + D3.js for data visualization
- Project in development can be viewed at spotivizual.herokuapp.com

## ReadAct (for DubHacks 2020)

₩ October 2020

- A Chrome extension that analyzes political bias and provides information about candidates and measures referenced in articles read by the user
- Leveraged the Bipartisan Press and WeVote APIs for conducting bias analysis and political information retrieval
- Leveraged the Azure Text Analytics API for entity/key phrase extraction and Bootstrap + D3.js for the frontend design

## **EDUCATION**

# B.S. in Computer Science University of Washington, Seattle

# September 2018 - June 2021

- Combined B.S./M.S. program in Computer Science (M.S. graduation in June 2022)
- **GPA:** 3.98/4.00
- Data Science option in B.S.
- Minor in Mathematics for B.S.
- Su Family Endowed Scholarship (2020-21)
- Microsoft Endowed Scholarship (2019-20)
- Selected Coursework:
  - Machine Learning (Graduate)
  - Algorithms | Data Structures & Parallelism
  - Database Systems Internals
  - Data Management | Data Visualization
  - Security | Systems Programming
  - The Hardware-Software Interface
  - Software Design & Implementation
  - Discrete Math | Probability & Statistics
  - Advanced Linear Algebra | Linear Analysis
- Current Relevant Coursework:
  - Machine Learning for Big Data (Graduate)
  - Computer Communication Networks
  - Research Seminar in Networks

## **SKILLS**

#### Languages

Python Java C++ C# C Julia

JavaScript MATLAB x86 Assembly

#### **Database Technologies**

MySQL Azure SQL Firebase

SQLite Cypher neo4j SQL++

#### **Data Science**

PyTorch TensorFlow Keras

NumPy Azure Cognitive Services

Google Cloud Platform D3.js NLTK

scikit-learn OpenCV Tableau

#### Web Development

HTML CSS React.js Express.js

Node.js Flask Bootstrap jQuery

Heroku Jinja Axios Pug Jade