ABHISHEK BABU

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EXPERIENCE

Software Engineering Intern

Pārv.ai

Redmond, WA

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

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 Pellevue, 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 Haar Cascade 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 + Spotify Web API for user authentication and data retrieval, and Bootstrap + D3.js for data visualization
- Project under construction can be viewed at spotivizual.herokuapp.com

ReadAct (for DubHacks 2020)

Ctober 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

M.S. in Computer Science University of Washington, Seattle

September 2021 – June 2022 (Expected)

- Combined B.S./M.S. Program
- Selected Graduate Coursework:
 - Machine Learning for Big Data
 - Machine Learning

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

September 2018 - June 2021

- **GPA:** 3.98/4.00
- Data Science Option & Minor in Mathematics
- Honors and Awards:
 - Su Family Endowed Scholarship (2020-21)
 - Microsoft Endowed Scholarship (2019-20)
- Selected Undergraduate Coursework:
 - Algorithms | Data Structures & Parallelism
 - Database Systems Internals
 - Data Management | Data Visualization
 - Computer Communication Networks
 - Security | Systems Programming
 - The Hardware-Software Interface
 - Software Design & Implementation
 - Discrete Math | Probability & Statistics
 - Advanced Linear Algebra | Linear Analysis

SKILLS

Languages

Python Java C++ C# C Julia

JavaScript MATLAB R Assembly

Data Science & Visualization

PyTorch TensorFlow Keras NLTK
Apache Spark scikit-learn OpenCV
Jupyter D3.js Tableau

Cloud & Databases

Microsoft Azure MySQL SQLite
Google Cloud Platform Firebase

Web Development

HTML CSS React.js Express.js

Node.js Flask Bootstrap Heroku