

ABHISHEK BABU

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Inquisitive and enthusiastic computer science student with strong foundation in math and programming logic. Highly interested in leveraging my skills in data science and machine learning applications.

EXPERIENCE

Software Engineering Intern

Pārv.ai

June 2020 – September 2020 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

CodeLabs 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 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 + the 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)

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

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