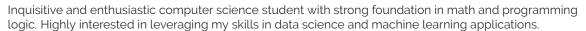
ABHISHEK BABU

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github.com/abhishekbabu in linkedin.com/in/abhishek-babu





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
- Leveraged Azure SQL for authentication data and for experimentation in SSO authentication with Google, Facebook and Azure Active Directory

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 CNN 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 HaarCascade classifiers to optimize API calls, reducing application cost by 90%

PROJECTS

SpotiViz

July 2020 - Present

- A web application for users to visualize their Spotify listening data
- 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)

Cotober 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)
- Prior Coursework:
 - Machine Learning (Graduate Course)
 - Data Visualization
 - Systems Programming
 - Data Management
 - Data Structures and Parallelism
 - Software Design and Implementation
 - The Hardware-Software Interface
 - Discrete Math | Probability & Statistics
 - Linear Algebra | Linear Analysis
- Current Coursework (Winter 2021):
 - Algorithms
 - Database Systems Internals
 - Computer Security
 - Advanced Linear Algebra

SKILLS

Languages

Python Java C++ C# C
JavaScript MATLAB

Database Technologies

SQL Azure SQL Firebase SQLite
Cypher neo4j SQL++

Data Science & Visualization

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