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 fields.

EXPERIENCE

Software Engineering Intern
Pārv.ai

📅 June 2020 – Present   📍 Redmond, WA

– Parv.ai is an AI-based educational platform interacting with various MOOC providers including Udemy and edX
– Web development using Azure SQL, React.js, HTML and CSS
– Enabling single sign-on with Google & Facebook sign-in and Azure Active Directory

Technical Project Lead & Lead Software Engineer
Autonomous Flight Systems Laboratory
University of Washington: College of Engineering

📅 April 2019 – Present   📍 Seattle, WA

– **Project:** Laboratory Reconciliation and Information System (LARI)
– Developing a SQL data management solution to streamline hardware components tracking and flight data
– Developing automatic checklist generating functionality for flight tests contingent on component tracking for UAVs and other aircraft to reduce transition period between aircraft readiness and testing by 75%
– Overseeing project's technical development and ensuring developers' timely progress on user stories by leading development meetings

Software Engineering Intern
Tata Consultancy Services

📅 August 2019 – September 2019   📍 Bellevue, WA

– **Project:** Meetings Monitor
– Developed a .NET Core cross platform application 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
– Integrated application with conference room booking bot to gather metrics about conference room bookings vs. usage quality
– Created and updated documentation for project dependencies and development on Azure DevOps

PROJECTS

CoviData for Virtual CodeDay   📅 May 2020 – Present

– Chrome extension that displays a dashboard style view of COVID-19 country-wise stats
– Leveraged Fetch API and Novel COVID API for data collection and D3.js for data visualization

Musique for DubHacks   📅 October 2019

– Uses pixel data of a user-uploaded image to produce instrumental music that matches color-grading and tone of an image
– Leveraged OpenCV with Python for pixel-wise image analysis and mapping pixel data to musical chords, keys and notes
– Leveraged Flask to deploy web application on Google App Engine

EDUCATION

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

📅 September 2018 – June 2021

– Minor in Mathematics
– GPA: 3.98/4.00
– Relevant Coursework:
  - Systems Programming
  - Data Management and Databases
  - Data Structures and Parallelism
  - Software Design and Implementation
  - The Hardware/Software Interface
  - Discrete Mathematics and Probability
  - Linear Algebra and Analysis
  - Differential Equations
  - Engineering Statics and Dynamics

SKILLS

Backend & Databases

Java   C#   C++   C   SQL
SQL++   Cypher   AsterixDB
Azure SQL Server

Data Science & Visualization

Python   MATLAB   scikit-learn
D3.js   Azure Cognitive Services
Natural Language Toolkit   Matplotlib
OpenCV   Seaborn   Twitter API

Web Development

JavaScript   HTML   CSS   React.js
Chrome Extension API   Bootstrap

AWARDS

Annual Dean's List x2

📅 June 2020

Earned >3.5 GPA each quarter throughout the 2018-19 and 2019-20 academic years

Microsoft Endowed Scholarship

📅 September 2019

Academic merit-based scholarship awarded by the Paul G. Allen School of Computer Science and Engineering