

# 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

- Developing additional pages including the Privacy Protection and Policy pages for the Pārv.ai website using React.js, HTML and CSS
- Implementing external user registration functionality for Google and Facebook sign-on
- Integrating Pārv.ai's solution with 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