ABHISHEK BABU

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EXPERIENCE

Software Engineering Intern Tata Consultancy Services

Aug 2019 - Sep 2019

Pallevue, WA

- Project: Meetings Monitor
- Create functionality to analyze conference room images from a remote IoT device for people detection and facial recognition of conference room users
- Add features for storing time-stamped data points into table storage (parsed detection results) and blob storage (images and unparsed results)
- Used data to produce comparative metrics of room booking vs. room usage
- Created cross-platform functionality with .NET Core
- Created and updated documentation for project dependencies and libraries
- Technologies: C# (.NET Core), Raspberry Pi 4, Raspbian (Linux), Microsoft Cognitive Services (Face API, Computer Vision API), OpenCV, OpenCvSharp, Microsoft Azure (Table Storage, Blob Storage, DevOps), JSON, Bash

Technical Project Lead

Autonomous Flight Systems Laboratory University of Washington

Apr 2019 - Present

Seattle, WA

- Project: Laboratory Reconciliation and Information System (LARI)
- Oversee project's technical development and ensure other developers' timely progress on user stories
- Developing a database 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 significantly reduce transition period between aircraft readiness and testing
- Technologies: C# (.NET Framework), SQL, XAML, Git, Perforce, Trello

Assistant Taekwondo Instructor True Martial Arts

Esp 2018 - Present

Sammamish, WA

- Leading warm-ups and training in sparring and Taekwondo forms
- Facilitating engaging and challenging Taekwondo lessons for groups ranging from 15 to 40 students
- Incorporating student and instructor feedback to ameliorate training

AWARDS

Microsoft Endowed Scholarship

 Merit scholarship awarded by the Paul G. Allen School of Computer Science and Engineering

Annual Dean's List

Aug 2019

• Earned quarterly GPA > 3.5 to appear on every quarterly Dean's List throughout the 2018-19 academic year at the University of Washington

Departmental Medallion for Mathematics

∰ Jun 2018

 Staff-selected award for excellent academic performance and extracurricular pursuits in mathematics

EDUCATION

B.S. in Computer Science University of Washington

Sep 2018 - Jun 2021 ♥ Seattle, WA

- Cumulative GPA: 4.00/4.00
- Coursework: Hardware/Software Interface, Foundations of Computing I, Linear Algebra, Engineering Statics and Dynamics, Scientific Computing, Java Programming
- Hackathons: DubHacks 2019

International Baccalaureate Diploma Skyline High School

- Cumulative GPA: 3.93/4.00
- Higher Level Subjects: Mathematics, Physics, English A: Literature
- Hacakthons: T-Mobile CodeDay 2017

PROJECTS

Musique - DubHacks 2019

- Uses pixel data to produce music matching color-grading and tone of an image
- Wrote Python backend to leverage OpenCV for pixel-by-pixel image analysis and mapping data to musical chords, keys and notes
- Leveraged Flask to deploy HTML/CSS frontend on Google App Engine

Tweet Sentiment Prediction Model

- Harvested tweet data using the Twitter API
- Trained a logistic regression model using Scikit-Learn and NLTK to predict whether tweets conveyed positive or negative sentiment

Smart Mirror

- Built project using MagicMirror framework to display time, weather, calendar, etc. on mirror
- Implemented Google Assistant API to enable voice assistant

SKILLS

Java	C# N	1ATLAB)(c)	Python
JSON	Flask Git SQL			
HTML	CSS	Bash	Ope	nCV
Microsoft Azure Google App Engine				
CAD 3D Printing			Photogrammetry	