

# VEDANT VOHRA

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## EDUCATION

### University of Houston

*Master of Science in Computer Science*

Aug 2021 – (Expected) May 2023

*Houston, TX*

### Keshav Memorial Institute of Technology (affiliated to JNTUH)

*Bachelor of Technology in Computer Science and Engineering*

Sept 2014 – May 2018

*Hyderabad, TS, India*

## RELEVANT COURSEWORK

- |                                |                       |                      |                                 |
|--------------------------------|-----------------------|----------------------|---------------------------------|
| • Data Structures & Algorithms | Languages & Paradigms | • Machine Learning   | • Intermediate Game Development |
| • Programming                  | • Cloud Computing     | • Computer Vision    |                                 |
|                                |                       | • Big Data Analytics |                                 |

## EXPERIENCE

### Slalom Build

*Software Engineer Intern*

June 2022 – Aug 2022

*Houston, TX*

#### Responsibilities:

- Worked with a team on the Meaningful Work project.
- Redesigned the architecture to accommodate post-MVP features.
- Presented at the monthly Architecture Collaboration meeting.

#### Projects:

- **Meaningful Work - Feedback API** — *Typescript, NodeJS, DynamoDB, Lex, Lambda, SQS, EventBridge, CloudFormation*
- A Slack chatbot app and backend serverless API for asking Slalom employees for feedback on their work.
- The Data collected by the API is used to calculate the Happiness Index of the employees, which is used by company leadership to make decisions to help boost employee satisfaction.

### Darwinbox

*Senior Software Engineer*

Mar 2018 – Oct 2020

*Hyderabad, TS, India*

#### Responsibilities:

- Reported directly to the CTO and spearheaded development of cutting-edge, scalable architecture solutions using the latest technologies and platforms, ensuring optimal performance and efficiency.
- Managed multiple modules and deliverables as the sole owner, maintaining a high level of quality and attention to detail, resulting in streamlined processes and improved productivity.
- Demonstrated distinguished leadership skills as team lead, providing mentorship and guidance, fostering a collaborative and productive environment, and driving high team performance.
- Played a pivotal role in architecture and design, conducting comprehensive code reviews and review meetings, providing valuable feedback, and driving consistent improvements in application quality.
- Conducted platform optimization sprints resulting in up to 50% improvement in application responsiveness and a 20% reduction in AWS bills.
- Strengthened application security as lead developer on the AppSec team, identifying vulnerabilities, developing effective security protocols, and ensuring compliance with industry standards and best practices.
- Pioneered innovative solutions as RD Lead, driving product and technology advancements that provided a significant competitive edge and increased revenue. These solutions were showcased at TechHR, the largest HR tech conference in Asia for two consecutive years, receiving accolades and recognition from industry experts.
- Owned the product's flagship module, PMS, delivering timely and high-quality features and a module overhaul, resulting in a 300% increase in module usage.

#### Projects:

- **Reports module** - Led a team of developers working on building a performant, service-oriented framework for processing and generating realtime reports. — *NodeJS, MongoDB, Redis, Angular, SQS, S3, ElasticSearch*
- **Analytics module** - Built a reliable data pipeline to channel and process data from all modules in the application. Designed and built a modular and highly scalable backend framework to deliver data on demand to a powerful visual analytics engine. — *Yii, NodeJS, MongoDB, Angular, SQS*

- **Application Security** - Worked with internal and external stakeholders to identify, review, and patch varying levels of vulnerabilities. Worked with DevSecOps to establish security best practices for the whole development team. Addressed client concerns with respect to Application Security and Compliance.
- **PMS module** - Owned the PMS (Performance Management System) module. Was responsible for all development within the module — *PHP (Yii), JQuery, MongoDB, MySQL, Redis, Elasticsearch, S3*
- **Face Recognition Service** - A contactless biometric attendance system built on top of AWS services. Built an API to easily integrate face recognition into any module in the application. Researched various Liveness Detection methods and worked on a prototype for an Anti- Spoofing System using Chromatic Shift, Texture-Based and Optical Flow Analysis — *NodeJS, Lambda, MongoDB, DynamoDB, Rekognition, S3, Python, Keras, OpenCV, NumPy*
- **ID Document and Receipt Parser** - Worked alongside an external resource on an OCR-based engine to scan and parse relevant data from ID documents such as driver's licenses and from various types of receipts and invoices. Built it as a scalable microservice with 2 components, Training and Parsing. — *Python, R (Shiny), Tensorflow, Tesseract*

## Darwinbox

Intern

Jan 2018 – Mar 2018

Hyderabad, TS, India

### Projects:

- **Voicebot** - Built an intelligent assistant into the Darwinbox Android app using a lightweight API server with high throughput to act as middleware, along with a DialogFlow-backed conversation engine. Also created a custom intent classification model using the RASA NLU library and training data from wit.ai — *Go, Python, NLTK, RASA NLU pipeline*
- **Web Crawler and Scraper** - based on js-crawler to feed training data to the Voicebot — *NodeJS, JQuery, webpack*
- **ProfanityFilter** - A profanity filter and sentiment analyzer for employee feedback built on the Sentiment Classification using Word Sense Disambiguation concept and the SentiWordNet dataset — *Python, NLTK, SciKit-Learn*
- **OCR** - Worked as part of a team on a basic OCR engine to power a receipt parser. — *Python, OpenCV, Tesseract*
- **Event registration form for Dialog on Tech event and email template for Blog** — *HTML5, CSS3, JQuery*

## GGK Tech

Intern

Oct 2017 – Dec 2017

Hyderabad, TS, India

- Underwent training in C# and .NET development at production scale.

## PROJECTS

**Gumo**  | NodeJS, MongoDB, Elasticsearch, Neo4J

- A web-crawler and scraper to extract data from a family of nested dynamic web pages, with added enhancements to assist knowledge mining applications.

**SmartCities-Project-1**  | Python, OpenCV, Tensorflow, P-DESTRE dataset

- UAV Tracking for Smart Cities - Pedestrian detection, re-identification and tracking using a UAV. Trained on the P-DESTRE dataset.

**Camera-based Heart Rate Measurement in the Cloud**  | Python, OpenCV, AWS

- Heart rate estimation using a webcam. Scaled up for multiple simultaneous measurements using cloud technologies.

## SKILLS

Python, JavaScript, Typescript, C#, Java, Go, PHP, JQuery, NodeJS, Angular, MongoDB, SQL, Neo4J, Elasticsearch, Redis, Jest, Microservice Architecture, AWS, Linux, GIT, Docker, Unity, Machine Learning, Deep Learning, NLP, NLU, Computer Vision, Tensorflow, PyTorch, Blockchain, JIRA project management

## PUBLICATIONS

**A Glimpse Under the Hood of Face Recognition at Darwinbox** 

20th November, 2020

Tech@Darwinbox

A walkthrough of the implementation of Face Recognition in the Darwinbox mobile application

## ACTIVITIES

**KMIT AI Club**

2017-2018

Student Mentor

Helped organize discussion sessions and activities for the AI club.