




Pravat Bhusal

Software Engineer

Dallas and Austin, TX (US Citizen)

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EDUCATION

B.S. Computer Science

University of Texas at Austin

Class of May 2021 (3.82 GPA)

• Data Structures and Algorithms • Modern Web Apps • IOS Mobile Computing
• Operating Systems • Computer Architecture • Linear Algebra • Statistics

WORK EXPERIENCE

Software Engineering Intern

EOG Resources

May 2020 - August 2020 Houston, TX

Achievements/Tasks

- Programmed a map, playback system, and highcharts that track and visualize the **entire world's** crude oil inventories for on-shore, offshore, and in-transit storages
- Presented the software at a conference and received praise from the users of the app: CEO, COO, EVP, and other executives
- Developed the frontend using **React**, **Redux**, and Sagas
- Structured the API using **C#**, **ASP.NET**, and **MemSQL** queries

Full Stack Engineer - Contracted

Edge Learning

December 2019 - August 2020 Austin, TX

Achievements/Tasks

- Understood the **business value** of the product and promoted solutions during weekly meetings with board executives
- Architected a **React Redux** app that tracks student progress for college readiness to parents and guardians
- Stored and formatted user data using **Express** and **MySQL**
- Deployed** the app on Microsoft **Azure** using **Docker** to maintain a **scalable** and **containerized** environment

Undergraduate Researcher

University of Texas - Big Data in Biology

Jan. 2019 - December 2019 Austin, TX

Achievements/Tasks

- Researched next generation sequencing outputs to study gene expression patterns associated with ALS disease
- Utilized **Scikit-learn** to process RNA-seq data from autistic patients and **Seaborn** to visualize the gene expression of autism

Android Instructor

University of Texas - Mobile App Development

August 2018 - May 2019 Austin, TX

Achievements/Tasks

- Presented lectures about the Android life cycle, Android SDK, **Material Design**, **Networking** and APIs, and **Databases**
- Evaluated assignments and held weekly meetings about the latest features in the Android SDK

SKILLS

React Redux TypeScript Node.js Express
Android Servlets ASP.NET Flask SQL Git
Docker Cloud Linux Keras Sklearn

JavaScript

Highly Proficient

Java

Proficient

Python

Proficient

C#

Intermediate

PHP

Intermediate

C / C++

Intermediate

PROJECTS

Flare (11/2019)

- A **React Native** app that uses a **convolutional neural network** to classify the victim density from images of natural disasters
- Integrated **Tensorflow**, **Keras**, Scikit-learn, and Jupyter to build the deep learning algorithm

Longhorn Dining (07/2019)

- A **Flask** web-app that **web-scrapes** the UT dining menu and filters food items by dietary restrictions
- Served **2500+** users and featured on The Daily Texan newspaper

Copit (06/2019)

- A real-time **React Native** app using **Socket.IO** for students to ping freebies, events, parties, and many other activities nearby their area
- Implemented Google Maps API, **SMTP**, salted user authentication system, and a **MySQL** database

Smart Rates (01/2019)

- A **responsive** web-app that graphs the real-time market value of a user's cars using a **Flask** server that integrates Marketcheck with the Smart Car API

S.T.E.A.M. Achievers Games (05/2018)

- A **CRUD** web-app that allows for teams to upload and play their game submissions for the S.T.E.A.M. Achievers Hackathon at UT Dallas
- Programmed the entire infrastructure using **JavaScript**, **jQuery**, **Bootstrap**, **PHP**, and **MySQL**

Spoodle (04/2018)

- An **Android** e-commerce app that allows people to sell or donate leftover, but clean, food to others at a discounted price
- Engineered the entire e-commerce architecture using PayPal IPN, **PHP**, and **MySQL**