

Pravat Bhusal

Software Engineer

Irving and Austin, TX (U.S. Citizen)

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shadowsych.github.io

HTTP

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EDUCATION

B.S. Computer Science

University of Texas at Austin

Class of May 2021 (3.82 GPA)

Austin, TX

• Data Structures and Algorithms • Operating Systems
• Modern Web Apps • Statistics • Linear Algebra • Calculus III

WORK EXPERIENCE

Software Engineering Intern

EOG Resources

May 2020 - August 2020

Houston, TX

Achievements/Tasks

- Engineered a map, chart, and playback system that visualizes global, national, and regional oil supply change of onshore storages and offshore tankers
- Implemented the frontend UI using **React**, **Redux**, and **Sagas**
- Structured the API using **C#**, **ASP.NET**, and **MemSQL** queries
- Planning on presenting the software at a conference to the users of the app: the CEO, CFO, Head of Drilling, and other executives

Full Stack Engineer - Contracted

Edge Learning

December 2019 - August 2020

Austin, TX

Achievements/Tasks

- Architected a web-app that tracks and displays student progress for college readiness to parents and guardians
- Designed the frontend UI using **React** and **Redux**
- Engineered the backend using **NodeJS** and **Express** to query a **MySQL** database that stores user data
- 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
- Integrated **SKlearn** and **Seaborn** to analyze RNA-seq data from autistic patients 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 delivered lectures during weekly discussion sections regarding Android development

SKILLS

React Redux NodeJS Socket.IO jQuery

TypeScript Android Servlets ASP.NET Flask

SQL Docker Cloud Linux Keras Sklearn

Java

Expert

JavaScript

Proficient

HTML 5 / CSS3

Proficient

Python

Proficient

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 design the deep learning algorithm

Longhorn Dining (07/2019)

- A **Flask** web-app that **web-scrapes** the UT dining menu and displays it with enhanced features
- Generated **2500+** users and featured on The Daily Texan newspaper

Copit (06/2019)

- A real-time **React Native** app using **Socket.IO** where students ping freebies, events, parties, and many other activities nearby their area
- Implemented Google Maps, a secure account system, **SMTP**, and a **MySQL** database

Smart Rates (01/2019)

- A mobile and web-application that analyzes the real-time market value of a car using a **Flask** server and 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 tech stack 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**