Pravat Bhusal
Software Engineer
Irving and Austin, TX (U.S. Citizen)

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WORK EXPERIENCE

Undergraduate Researcher
University of Texas - Big Data in Biology

Jan. 2019 - Present   *Austin, TX*

Achievements/Tasks

- Analyzed next generation sequencing outputs to study the gene expression patterns associated with ALS disease
- Used **SKlearn** and **Seaborn** to analyze RNA-seq data from autistic patients to visualize the gene expression of autism
- Utilized **Pandas** DataFrames in a Unix environment
- Documented NGS data on **Jupyter** Notebook with the principal investigator and peers

Android Instructor
University of Texas - Mobile App Development

August 2018 - Present   *Austin, TX*

Achievements/Tasks

- Taught UT Austin students about how to program in Android Studio, create layouts, and use the **Android SDK**
- Programmed assignments and wrote lecture plans for weekly discussion sections regarding Android development
- Scheduled lecture plans with fellow Android instructors
- Lectured about the Android life cycle, Android SDK and Docs, **Material Design**, **Networking** and APIs, **Databases**, and Publishing to the Play Store

Software Engineering Intern
S.T.E.A.M. Achievers

September 2017 - May 2018   *Dallas, TX*

Achievements/Tasks

- Assigned the **lead role** of the engineering intern group among 11 other interns
- Frontend development using **HTML 5, CSS 3,** and **JavaScript** for the design and function of the S.T.E.A.M. Achievers Hackathon website
- Backend development using **PHP** and **SQL** to query the MySQL database and store uploaded apps
- Listened to feedback from partners in Dell, Microsoft, and other tech companies about the website's architecture

EDUCATION

B.S. Computer Science
University of Texas

Class of 2021 (GPA: 3.86)   *Austin, TX*
• Introduction to Programming • Data Structures & Algorithms
• Discrete Math • Big Data in Biology • Calculus 1,2, and 3

I.B. Diploma, High School
Uplift North Hills Preparatory

August 2014 - May 2018   *Irving, TX*

SKILLS

React   Express   Socket.IO   Redux   Flask
MySQL   Cloud   Servlets   Android   Jupyter
Matplotlib   Pandas   SciKit   Keras   Unix

HTML 5/CSS 3	**Proficient**
JavaScript	**Intermediate**
Python	**Intermediate**
Java	**Intermediate**
PHP	**Intermediate**
C/C++	**Novice**

PROJECTS

Longhorn Dining (07/2019) ⬈
- A **Flask** web-app that **web-scrapes** the UT dining menu and displays it with enhanced features
- Accumulated **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
- Integrated 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

EagleEye (09/2018) ⬈
- A **React Native** app that notifies government officials about infrastructure issues using a **PHP and MySQL backend**

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
- Programmed the entire e-commerce architecture using PayPal IPN, **PHP, and MySQL**

SarassA Fashion (02/2018) ⬈
- A **full-stack** e-commerce fashion website built for the SarassA Fashion business using **PHP and MySQL**

ACHIEVEMENTS

2017 cPanel & FreeCodeCamp Hackathon 1st Place
Awarded 1st Place for the best mobile app, GreenView, out of 50+ other competitors

S.T.E.A.M. Achievers Hackathon 1st Place (08/2017)
Awarded for the best game programming and design at UT Dallas

B.E.S.T. Robotics Engineering Award (11/2017)
Awarded twice for the best engineering and programming design