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
- Also used **SKlearn** and **Seaborn** to analyze RNA-seq data from autistic patients to study 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 secure the MySQL database and the upload of 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: 4.0)   *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

Node	ReactJS/Native	Socket.IO	Flask
MySQL	Redux	Android Studio	Cloud
Jupyter	Unix/Linux		

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

PROJECTS

Smart Rates (01/2018) ↗
- A mobile and web-application that analyzes the real-time market value of a car using a **Flask** server and the Smart Car API

FastPass (10/2018) ↗
- A React Native mobile app that verifies the boarding pass information of American Airlines passengers through the **Microsoft Azure Facial Recognition API**

EagleEye (09/2018) ↗
- A React Native mobile 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

SarassA Fashion (02/2018) ↗
- A **PHP** e-commerce fashion website built for the SarassA Fashion business in Dallas, Texas

GreenView (11/2017) ↗
- An Android app that determines whether an item is recyclable using **PHP, MySQL**, and the Clarifai API

ACHIEVEMENTS

Toyota/APIASF Scholarship (05/2018)
Awarded a $2500 scholarship for high-achieving academics in STEM

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