NEERAJ DHARMADHIKARI

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EDUCATION

University of California, Irvine
M.S. in Computer Science | Sep 2020 - Present
GPA: 3.55 | Expected Graduation: Jun 2022

University of California, Irvine
B.S. in Computer Science | Sep 2018 - Jun 2020
GPA: 3.72 | Specialization: Artificial Intelligence

WORK EXPERIENCE

Software Engineering Intern - Full Stack
Bizmatics Inc. | Summer 2020
- Replaced Bizmatics's 8-year-old UI components with modernized web interfaces that meet today's standards of responsive UI/UX using *Figma* and *Java Server Pages*
- Created a gateway of SMS texting using *Java* for clients to send reminders to patients using a web service and saving the company over 50% costs on International texting

Software Engineering Intern - Database Management
Bizmatics Inc. | Summer 2019
- Developed a robust data import program using *JDBC & Microsoft SQL* that can map over 30K patient-data-entries into our software overnight
- Coordinated with new clients to help them seamlessly transition into using Bizmatics's software 'PrognoCIS'
- Designed filterable reports for EMR tracking utilized by the health clinics

Teaching Assistant - Python & x86 Assembly Language
De Anza College | Fall 2017 - Summer 2018
- Assisted Professor in teaching students, and making step-by-step videos of problem solving for x86, Python, IDE set-ups, and debugging that can be found here: https://bit.ly/2UIwfGI
- Held office-hours in the computer lab to answer questions visiting students had about their assignments for 3 days a week for 4 quarters

SKILLS

Python (Most Experience)
Java
C & C++
HTML & CSS
JavaScript & TypeScript
SQL
x86 & MIPS Assembly

TOOLS

Eclipse Java
Visual Studio
Android Studio
Jupyter Notebook
Microsoft SQL
Ubuntu Linux
VirtualBox
Git/Github
Angular
Figma
Ionic
Django
Adobe Suite
InVision Studio

ACADEMIC RESEARCH & DEVELOPMENT

Goal-Setting Application Design in Supporting Mental Health
Prof. Elena Agapie | Fall 2020 - Present
- Member of a 3-person team tasked with mapping the design space for goal-setting applications
- Currently conducting formative research to gauge how therapists and patients collaborate in designing and implementing behavior goals

P.I.E. Lab - Developing Mobile App for Dosage Calculations
Prof. Daniel Epstein | Winter 2021 - Present
- In charge of development using *Ionic & Angular JavaScript* for cross-platform Mobile Application
- App intended to help doctors and patients collaborate on increasing/decreasing medicine dosages

PROJECTS

Distracted Driver Detection
Using *PyTorch* and *ResNet18* model with 22.4K images of distracted drivers, built a detector that can classify these distractions with validation accuracy of 99.7%

"Specifit" - Mobile Application for Healthy Eating
Android app *(Java)* that assembles a personal model for a user based on preferences and geolocation to recommend the healthiest places to eat nearby

Personal Relational Database
Created using *C++*: a Paged-File Manager, Record-Based-File Manager, a Relational Manager, Index Builder, and a Query Engine that mimics the behavior of a basic RDBMS

Face & Object Detection
With a ~93% testing accuracy and implementing *Python's Hogvis & Skimage libraries,* developed and trained a program for detecting faces as well as traffic signs

"Know Before You Go" - IOS App Prototype
Prototype created in *Figma* for a mobile app that lets users look up COVID-19 related information such as updated hours, crowd-density, & business policies about restaurants and cafes prior to leaving

Personalized Search Engine
Python-based Search Engine program that builds an inverted index from a corpus of UCI hyperlinks that get crawled, tokenized, and indexed. For front-end: used *Materialize CSS & JS*

LINKS

Github - https://github.com/NeerajDharmadhikari
LinkedIn - https://www.linkedin.com/in/neeraj-dharmadhikari/