NEERAJ DHARMADHIKARI

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EDUCATION

University of California, Irvine

M.S. in Computer Science | September 2020 - Present GPA: 3.55 | Expected Graduation: March 2022

University of California, Irvine

B.S. in Computer Science | September 2018 - June 2020 GPA: 3.72 | Specialization: Artificial Intelligence

WORK EXPERIENCE

Software Intern - Portal Platform

Guardant Health Inc. | Summer 2021 (In progress)

- Developing and training an AI Chatbot using Google
 Dialogflow (NLU) and the combined features of React &
 Ruby on Rails in order to provide users with 24-7
 assistance and ultimately ease the load off our support
 team
- Integrating the chatbot into Guardant backend by designing a RESTful API in Node.js that can fetch the correct results for any user query, then creating the documentation per company's methodology

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 doctorpatient communication using a cheaper web service that I discovered, saving the company over 50% in texting fees

Software Engineering Intern - Database

Bizmatics Inc. | Summer 2019

- Built a robust data import program using JDBC & Microsoft SQL that can map over 30K patient-dataentries 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 video tutorials for IDE set-ups, and debugging that can be found here: https://bit.ly/2UlwfGI
- 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 TOOLS

Python (Most Experience)	Eclipse Java	Git/Github
Java	Visual Studio	Angular
JavaScript & TypeScript	Android Studio	Figma
C & C++	Jupyter Notebook	React
HTML & CSS	Microsoft SQL	Postman
SQL	Ubuntu Linux	RubyMine
x86 & MIPS Assembly	VirtualBox	Adobe Suite

ACADEMIC RESEARCH & DEVELOPMENT

Personal Informatics Everyday (PIE) Lab

Prof. Daniel Epstein | Winter 2021 - Present

- Designing a cross-platform application using lonic & React to help doctors and patients collaborate on tapering medicine dosage
- Conducting interviews with doctors & patients to understand specifications and use-cases

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

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/