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

Technical Coach (Part Time)
Outco Inc. | Fall 2021 (Current)
- Conducting 1:1s with prospective Software Engineers to help them sharpen their Computer Science fundamentals specifically using *Python* and *JavaScript*
- Faciliate mock interviews for clients and offering personalized feedback, whiteboarding tips, and insights about writing succinct, readable code

Software Intern (Portal Platform)
Guardant Health Inc. | Summer 2021
- Developing and training an AI Chatbot with *Google Dialogflow* and the combined features of *React & Ruby on Rails* to provide users with 24-7 assistance and help ease load for our support team
- Integrating the chatbot into Guardant backend by designing a *RESTful API* in *Node.js* that can fetch the requested patient data

Software Engineering Intern (Full Stack)
Bizmatics Inc. | Summer 2019 & 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 doctor-patient communication using a web service that saved the company over 50% in texting fees
- Built a robust data import program using *JDBC & Microsoft SQL* that can map over 30K patient-data-entries into our software overnight

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/2UIwfGl
- 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
JavaScript & TypeScript
C & C++
HTML & CSS
SQL
x86 & MIPS Assembly

TOOLS

Eclipse Java	Git/Github
Visual Studio	Angular
Android Studio	Figma
Jupyter Notebook	React
Microsoft SQL	Postman
Ubuntu Linux	RubyMine
VirtualBox	Adobe Suite

ACADEMIC RESEARCH & DEVELOPMENT

Personal Informatics Everyday (PIE) Lab
Prof. Daniel Epstein | Winter 2021 - Present
- Designing a cross-platform application using *Ionic & 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/