NEERAJ DHARMADHIKARI

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WORK EXPERIENCE

Full Stack Engineer (Trust and Safety Engineering Team)
Zoom Video Communications Inc. | Spring 2022 - Current
- Building an intuitive flow in *Java* for meeting-administrators to remove and report participants responsible for offensive and disruptive content to the relevant law enforcement agencies
- Expanding functionality of Zoom's Trust Form to allow escalating a report containing evidence of child abuse to the National Council of Missing and Exploited Children

Technical Coach (Part Time)
Outco Inc. | Fall 2021 - Spring 2022
- Conducted 1:1 sessions with prospective Software Engineers to help them sharpen their Computer Science fundamentals, specifically using *Python and JavaScript*
- Facilitated mock interviews for clients and offered personalized feedback, white-boarding tips, and insights about writing succinct, readable code

Software Engineering Intern (Health Portal Team)
Guardant Health Inc. | Summer 2021
- Developed and trained an AI Chatbot with *Google Dialogflow* and then combined features of *React & Ruby on Rails* to provide users with 24-7 assistance and help ease load for our support team
- Integrated 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/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

EDUCATION

University of California, Irvine
M.S. in Computer Science | GPA: 3.68 | Received March 2022

University of California, Irvine
B.S. in Computer Science | GPA: 3.72 | Received June 2020

SKILLS

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

TOOLS

Eclipse Java
Visual Studio
Android Studio
Jupyter Notebook
Microsoft SQL
Ubuntu Linux
VirtualBox

Git/Github
Angular
Figma
React
Postman
RubyMine
Adobe Suite

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/