

# 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*
- Facilitate 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/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

Python (Most Experience)

Java

JavaScript & TypeScript

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

## 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/>