

## 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

Guardant Health Inc. | Summer 2021 (In progress)

- Developing and training an AI Chatbot for the Patient Portal Platform using *Google Dialogflow* for NLP in order to provide users with 24-7 reliable assistance and ultimately ease the load off our support team
- Integrating the chatbot further into Physician and Pharmaceutical Portals using the combined features of *React & Ruby on Rails* before finally infusing Speech Recognition into the bot

### Software Engineering Intern - Full Stack

Bizmatics Inc. | Summer 2020 & Summer 2019

- 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 cheaper web service that I discovered, saving 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

### 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/>