

Vivek Amatya

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EDUCATION

UC Riverside

B.S. Computer Science

Graduation: Dec 2021

GPA: 3.78 *High Honors*

M.S. Computer Science

Graduation: June 2022

SKILLS

Programming Languages:

C/C++, Java, Python,
HTML, JavaScript, CSS,
Verilog, Scala, SQL

Technologies: Git, Unity,
PostgreSQL, MongoDB,
Firebase, HDFS, Spark,
Google App Engine, Node,
Flask, React, AWS RDS,
AWS S3

COURSEWORK

Data Structures,
Algorithms, Linear Algebra,
Differential Equations,
Discrete Mathematics,
Software Construction,
Embedded Systems,
Virtual Reality, Operating
Systems, Natural Language
Processing, Machine
Learning, Artificial
Intelligence, Big Data,
Database Management
Systems

EXTRACURRICULARS

Music: learned tabla for
10+ years from Debashish
Chaudhuri with guidance
from Pandit Swapan
Chaudhuri, performed at
the Festival of Tabla 2019

Sports: played in
intramural basketball
league at UCR, active
member of strava running

EXPERIENCE

Software Developer Intern (Frontend) – Xorb.AI

January 2021 - present

- Working on frontend mobile development using Flutter
- Reviewed, edited, and wrote over 1,000 lines of code
- Optimized route handling and interface by only reloading modified widgets
- Debugged multiple firebase integration bugs in log in and sign up auth flows
- Created custom animations for splash and home screens
- Presented at weekly meetings to discuss integration and progress with backend developers and supervisors

Full Stack Developer – Election Website

December 2019

- Constructed a website for hosting ASUCR elections using React, Bootstrap, Firebase, and Express in a team of 4
- Created a sticky, responsive navbar component to handle page routing
- Designed and implemented a “Candidates Page” that pulls data from Firestore database and displays candidate information on styled cards with options to filter candidates by position

PERSONAL PROJECTS

Tesla-Link

- Created a Google action for communicating with a Tesla vehicle through Google Assistant
- Constructed conversational logic using Google’s action console which connects to a Python webhook
- Backend is a Python webhook created with Flask which accepts post requests from the action and uses an unofficial Tesla API to connect to Tesla

Hotel Database System

- A Java application that models a relational database system for a hotel
- Developed queries to PostgreSQL database for functions such as adding a new customer, scheduling repairs, managing maintenance companies, and booking rooms

YouTubeVector

- A Python application that searches for similar YouTube videos based on content of search video
- Developed transcriber which takes downloaded videos from a download feeder, extracts audio, and transcribes it into text which gets stored in a database
- Wrote function that uses a trained gensim doc2vec model and inferred vector from the transcribed input video to find the most similar vectorized documents in the database

STUDENT ORGANIZATIONS

Tau Beta Pi

March 2019 – June 2021

- Initiated member of the Alpha Beta chapter of Tau Beta Pi Engineering Honor Society at UCR
- Attended study jams, socials, and industry speaker events

Society of Automotive Engineers

February – April 2018

- A team of engineers creating a formula race car that competes against other schools
- Worked on automating mechanical tests using CAN bus protocol

Reference: Paurakh Rajbhandary, PhD | Founder, Xorb.AI | paurakh@gmail.com