Udit Chophla

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EDUCATION

B.S. Computer Engineering
San Jose State University, GPA: 3.7
August 2015 – December 2019

SKILLS

Skillful: Python · C++ · Java · Git Version Control · Object Oriented Programming

Proficient: Data Structures · Algorithms · APIs

Experienced: Amazon Web Services · EC2 · RDS · Docker

Knowledgeful: Agile · Scrum Methodology · Software Development Life Cycle

EXPERIENCE

Associate Software Engineer, Kaiser Permanente IT   **January 2020—Present**
- Explore and apply data science concepts to areas of the healthcare industry.
- Assist with maintenance and development of internal tools.

Software Engineering Intern, Zillow Group   **June 2019—August 2019**
- Developed a new way of querying for back-end APIs using Facebook's GraphQL library in Java.
- Decreased bandwidth and overhead of data being transferred to make accessing information faster.
- Increasing querying speed by 20% by reducing number of API calls sent to back-end database.

Software Integration Intern, NASA Ames Research Center   **June 2018—August 2018**
- Utilized computer vision and optical flow algorithms to detect measurements and distortions of model inside wind tunnels.
- Developed tracking and movement scripts with Python and OpenCV to detect physical changes in model.
- Applied and developed new software approaches for image recognition of aerodynamic conditions of future aircrafts.

Software Engineering Intern, Cisco   **June 2017—August 2017**
- Joined the Core Software Group (CSG) as a Full Stack Developer and served on a mobility, 4G LTE Team.
- Created a tool that allowed automation engineers to decode messages sent between cell towers.
- Used Python to write a back-end script that would parse data packets containing wireless messages.
- Developed a GUI interface using HTML/CSS and the Django framework to trigger the back-end parser.
- Increased packet decoding from four packets to hundreds, decreasing overall team budget spending.

PROJECTS

MyUniversity, School Portal Web Application

AWS EC2, RDB, Python, Flask, Docker

- Designed a web application similar to MySJSU but with a more intuitive UI and custom student portal.
- Worked on development server using Flask, hosting the website publicly within AWS, and deploying via docker container.

Amazon Web Scraper

Python, Selenium, XML, HTML, CSS, Bootstrap

- Build a web scraper that would parse Amazon's website for information and related products matching the user's search query.
- Decrease amount of time it takes to parse from initial speeds of 204 seconds to final speeds of 68 sec.

NutriVision, Food Recognition Application

AWS EC2, Python, Flask, Google Cloud Vision, Nutitionix API

- Worked on a team project to create a food-recognition web-application that displays nutrition facts.
- App runs through Google Vision Platform and queries a response from a nutrition API to deliver final results.

Slack Bot

Python, Slack API, AWS EC2, BeautifulSoup Scraping Library

- Developed a web scraper that gathers cafeteria data from a company's website.
- Integrated it with Slack API so it sends an automatic daily message on a dedicated Slack channel displaying cafeteria items.