

PARTH SHAH

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EDUCATION

University of California, San Diego

La Jolla, CA

Bachelor of Science: Computer Science | GPA: 3.87/4.00

Expected Graduation: Dec 2021

Honors: Dean's List – All Quarters

- Coursework: Data Structures, Algorithms, Software Engineering, Machine Learning, Recommender Systems and Data Mining, Data Science in Practice, Statistical Methods, Digital Design, Systems Programming, Linear Algebra

PROFESSIONAL EXPERIENCE

Qualcomm Institute (California Institute for Telecommunications and Information Technology)

Remote

Data Science Research Intern

Jun 2020 – Present

- Model a graph-based network on Neo4j to host on AWS EC2, by running Python scripts on Lambda and storing data in AWS S3, for contact tracing of Covid-19, which will decrease the spread of the virus on a campus of 40,000 students
- Predict, using machine learning and probability models, the likelihood of contact between a healthy and an infected person

Halicioglu Data Science Institute, University of California – San Diego

La Jolla, CA

Student Web Developer

Jan 2020 – Present

- Developed a website, to be featured by the CDC, to display interactive charts of the UCSD-NEU Covid-19 forecast model, using Highcharts API in JavaScript for visualizations and Python for data cleaning and processing
- Increased website traffic by 5% and improved efficiency by resolving bugs in plugins on the CMS using PHP and CSS

Mirum Agency LLC

Mumbai, India

Software Engineer Intern

Jun 2019 – Aug 2019

- Built a web application that automated room reservations for the office building with 2000+ employees, including features such as automated recommendations, which increased efficiency by 90% due to the elimination of human assistance
- Converted wireframes to front end production code using HTML, CSS, Bootstrap, and JavaScript, and optimized data storage in a MySQL database by establishing CRUD operations in PHP

Lumnus Consulting LLP, Consulting Company for Start-ups

San Diego, CA

Vice President of External Relations

Mar 2020 – Present

- Advised various clients on strategic problems by drafting deliverables that were evaluated by applying business frameworks such as Ansoff's matrix, SWOT analysis, growth-share matrix, and marketing mix
- Developed relations with advisors and mentors to facilitate the growth of the organization and acted as Project Manager in charge of instituting partnerships with the Big 5 consulting firms through networking events

PROJECTS

Triton Exchange: Appointed as Project Manager and Developer to create a market place application, using React, Typescript, Express.js, and DynamoDB, which enables students to sell products to each other in a safe and friendly manner

Eggspired: Created a grocery shopping list app, using HTML, CSS/Bootstrap, JavaScript, PHP and MySQL, to reduce waste and promote sustainability by sending the user a CRON scheduled text when a product is about to expire

MNIST K-NN Classifier: Implemented a multiclass classifier, using Python and NumPy, to find the K nearest neighbors of an N-dimensional vectorized image of handwritten numbers in order to predict the number most likely associated with it

Pac-Man: Developed a Java GUI version of the Pac-Man game, using JavaFX Library, which incorporated for I/O event handling and loading previously saved progress on user friendly interface

Exercise Logger: Built an exercise logging application, using Swift and Firebase, which allows a user to create an account using Firebase Authentication and log the name, date and additional details of their exercises to maintain a healthy lifestyle

Autocomplete System: Coded a ternary search trie with three children nodes, using C++, to implement autocomplete and spell-checking features on a user provided word using a quick hashing mechanism on a preset dictionary

UCSDCalorie: Built a calorie counter application, using HTML, CSS, JavaScript, which calculates the cost and calories of food items at dining halls on campus, thus allowing students to budget expenses and maintain a healthy diet

SKILLS & INTERESTS

Technical Skills: Java, Python, C, C++, ARM Assembly, HTML, CSS, JavaScript, PHP, Cypher, Linux, SQL, MATLAB

Tools and Frameworks: React, Express, Node, Bootstrap, Git, JUnit, Meson, GDB, Valgrind, Neo4j, Docker, AWS

Other: English (Native), Gujarati (Fluent), Hindi (Fluent), Spanish (Beginner), Sea-Diving (PADI), Financial Markets