

# Parth Shah

• p3shah@ucsd.edu • (619)-997-9226 • www.linkedin.com/in/parthshah28 • www.github.com/parth2809

## EXPERIENCES

**Undergraduate Researcher**, Qualcomm Institute, La Jolla, California Jan 2020 – Present

- Designed graph networks on a Neo4j database using cypher queries in order to find the optimum path between the initial and final nodes.
- Trained machine learning algorithms to highlight the optimum path based on weights assigned to every node.
- Researching about future applications of graph networks before publishing a paper about the same.

**Student Web Developer**, Halicioğlu Data Science Institute, La Jolla, California Jan 2020 – Present

- Ensured safe transfer of the website onto a new server, by preventing any data loss and reducing server response time.
- Resolved bugs in plugins on the CMS by manually changing their PHP code and overriding their CSS features.
- Monitored website performance and ensured systematic functionality while keeping the website updated.

**Software Engineering Intern**, Mirum Agency, Mumbai, India Jul 2019 – Aug 2019

- Launched a web application that automated room reservations for an entire office building, which led to an increase in reservation efficiency by over 90% due to the complete elimination of human assistance.
- Converted wireframes to front end production code using HTML5, CSS3, Bootstrap, and JavaScript.
- Optimized the SQL database for performance tuning and updated database interactions as application scaled including the establishment of CRUD cycles using PHP.

**Vice President of External Relations**, Lumnus Consulting, La Jolla, California Apr 2019 – Present

- Advised various clients on strategic problems by drafting deliverables that were evaluated by employing business frameworks such as Ansoff's matrix, SWOT analysis, growth-share matrix, and marketing mix.
- Appointed as Program Manager for a networking event with executives from the Big 5 consulting firms in the San Diego Area, with the goal of instituting new partnerships with these firms.
- Developed and maintained relations with advisors and mentors to facilitate the growth of the organization.

## PROJECTS

**Eggspired:** A grocery shopping list app built to reduce waste and promote sustainability by sending the user a text message when a product on their grocery list is going to expire.

Technologies: HTML, CSS, Bootstrap, JavaScript, jQuery, PHP, MySQL, XAMPP Apache server, Twilio API.

**UCSD Calorie:** A calorie counter app, which calculates the cost and calories of food items from dining halls, built to help UCSD students budget their expenses on food while remaining healthy.

Technologies: HTML, CSS, and JavaScript.

**Stock Analyzer:** A software built to predict the movement of a stock's price by performing a sentiment analysis on news articles using Natural Language Processing packages.

Technologies: Python, Scikit-learn.

**K-Nearest Neighbor Classifier:** A classifier to calculate the K nearest neighbors to a N-dimensional vector in order to predict the label most-likely associated with that vector.

Technologies: Python, NumPy.

**Ternary Search Tree:** A trie with three child nodes that is used to implement auto-complete and spell-checking applications because of quick hashing.

Technologies: C++, Docker, Meson.

## EDUCATION

**University of California, San Diego** Sep 2018 - Present

Bachelor of Science - Computer Science

GPA – 3.87. Expected Graduation: December 2021.

Honors: Provost Honors - Awarded for academic excellence in a quarter

Relevant Coursework: Object-Oriented Programming: Java • Data Structures • Discrete Mathematics • Linear Algebra • Computer Organization and Systems Programming • Mathematics for Algorithm and Systems • Statistical Methods • Theory of Computation • Advanced Data Structures • Introduction to Machine Learning

## SKILLS

**Languages:** Java, Python, C, C++, HTML, CSS, JavaScript, SQL, ARM Assembly, PHP, Cypher, MATLAB.

**Tools and Softwares:** Unix/Linux, Bootstrap, JUnit, Meson, Maven, Git, BASH, GDB, Valgrind, Neo4j, Docker.