

Parth Shah

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EDUCATION

University of California, San Diego

La Jolla, CA

Bachelor of Science: Computer Science | GPA: 3.89/4.00

September 2018 - December 2021

Honors: Cum Laude, Phi Beta Kappa

- Coursework: Data Structures, Algorithms, Software Engineering, Entrepreneurship for Engineers, Operating Systems, Computer Security, Networked Services, Machine Learning, Recommender Systems and Data Mining

WORK EXPERIENCE

Coinbase, Inc.

San Francisco, CA

Software Engineer

Jan 2022 – Present

- Develop a highly available and distributed blockchain infrastructure manager utilizing Kubernetes, Helm, and AWS services, increasing uptime to 99.99% and reducing latency by 30%
- Designed and implemented a blockchain data proxy service in Go for block validation and downtime disaster recovery, enabling high availability for millions of transactions per day.
- Lead cross-functional efforts to establish paved roads for performing ERC-20 token upgrades in wallets and perform node, protocol, and SDK upgrades to maintain the availability of assets and ensure continuous trading.
- Developed monitoring and alerting systems using Datadog and Prometheus, providing real-time visibility into the health of the blockchain network and enabling rapid response to incidents.

EnergySage, Inc.

Boston, MA

Software Engineer Intern

June 2021 – September 2021

- Programmed applications by building API endpoints and data models in Django to add features to the marketplace.
- Developed user-friendly interfaces and widgets for the marketplace in Vue.js to engage 1,000,000+ monthly visitors.
- Automated end-to-end testing of use cases leading to 100% code coverage, using Python and Selenium.
- Collaborated with the consumer pod by participating in biweekly scrum sprints following agile methodologies such as issue tracking in Jira and extensive code reviews through GitHub.

Qualcomm Institute

San Diego, CA

Project Lead

June 2020 – June 2021

- Developed neural network in TensorFlow to model the optimum traffic density for the free flow of vehicles between two consecutive ramp meters on the freeway, which will help reduce congestion and vehicular accidents by 50%
- Designed a graph-based network, utilizing Neo4j, Python, and Wi-Fi signal triangulation, for contact tracing of Covid-19 on the UCSD campus to decrease the spread of the virus amongst 40,000 students.
- Devised a graduation requirements application, using React, Node.js, and Neo4j, to help students identify bottleneck courses and different paths to graduation based on graph-search algorithms.

Mirum Agency

Mumbai, India

Software Engineer Intern

January 2020 – June 2021

- Engineered a web application to automate room reservations for an office building with 2000+ employees, which improved efficiency by 90% due to the elimination of human assistance.
- Built the user interface from design mockups with HTML, CSS, and JavaScript, and set up REST API endpoints in PHP, to perform CRUD operations, for storing data in a MySQL database.

PROJECTS

Triton Exchange: Appointed as Product Manager to develop a marketplace application, using React, Typescript, Express.js, and DynamoDB, which enables students to sell products to each other in a safe manner.

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

SKILLS & INTERESTS

Technical Skills: Go, Python, Java, C, C++, HTML, CSS, JavaScript, SQL, PHP, Bash, ARM Assembly

Tools and Frameworks: React, Vue.js, Node.js, MongoDB, Kubernetes, Docker, Jenkins, AWS (EC2, S3, RDS, SQS, Lambda, DynamoDB), Terraform, Jira, GitHub