

# HARSH MEHTA

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## EDUCATION

### The Pennsylvania State University

University Park, Pennsylvania

Bachelor of Science in Computer Science with a minor in Entrepreneurship & Innovation

December 2022

**Selected Coursework:** Object-Oriented Programming, Data Structures & Algorithms, AI and ML, Operating Systems

**Activities and Leadership:** Founder and President, Boxing Club | Founder and President, Cricket Club | Founder and President, Reef Watch Club | Brother, Delta Chi Fraternity ( $\Delta X$ )

## WORK EXPERIENCE

### DotcomWeavers

Morristown, New Jersey

#### Project Manager Intern

Jun 2021 - Aug 2021

- Collaborated with stakeholders to define and document project scope, objectives, and technical feasibility for 5 projects using Agile development standards (Scrum) and Jira.
- Led the implementation of a communication improvement system, resulting in a 20% reduction in communication lapses between client and technical teams across projects.
- Streamlined documentation protocols for projects company-wide, resulting in a 15% improvement in project execution efficiency.
- Optimized team processes by instituting a monitoring system for 4 teams, resulting in a 25% increase in cross-functional teams' project efficiency.
- Leveraged advanced Magento customization techniques to improve website performance and user experience, resulting in a 20% increase in conversion rate.

### Learnero

Remote

#### Software Engineer Intern

Aug 2020 - Jan 2021

- Migrated an e-learning platform to AWS, utilizing EC2, S3, RDS, and CloudFront to improve availability, performance, and scalability, increasing platform speed by 40%.
- Designed and developed a responsive website using React and Django, improving the accessibility and user engagement of the platform and resulting in a 35% increase in user satisfaction.
- Acted as the point of contact between UI/UX and development teams, ensuring seamless integration of design and functionality, resulting in a 20% increase in user engagement.
- Implemented a CI/CD pipeline using Jenkins and GitHub Actions to automate the deployment process and enable seamless updates, reducing deployment time by 50%.
- Streamlined development processes by introducing automated testing using tools such as Jest, reducing the number of bugs by 20% and improving overall platform stability.

### Freelance

Remote

#### Web Developer & Designer

Aug 2019 - Aug 2020

- Delivered modern and visually appealing websites, custom web applications, and e-commerce solutions that exceeded expectations, managing up to 3 projects simultaneously using Asana.
- Utilized HTML, CSS, JavaScript, Node.js, and React to optimize clients' business processes and efficiency, resulting in an average of 20% increase in efficiency and streamlined operations.
- Created visually appealing designs for clients that accurately represented their brands using design tools such as Figma & Photoshop, resulting in 30% increased user retention.
- Developed custom e-commerce solutions for clients using CMS platforms like WordPress and Shopify, driving an average of 30% increase website traffic while streamlining the online sales process.
- Improved website performance through SEO best practices and web technologies such as lazy loading, file minimization, caching, increasing loading speed and user engagement by an average of 40%.

## PROJECT EXPERIENCE

### Django To-Do List Web Application

**Technologies:** Python, HTML, CSS, JavaScript

- Designed and implemented a user authentication system allowing users to register, log in, and log out of their accounts securely.
- Developed a responsive web application with full CRUD operations and search functionality, enabling users to create, view, edit, and delete their to-do list items.

### Stochastic Gradient Descent with L2 Regularization

**Technologies:** Python, NumPy, Matplotlib, Linux

- Developed and implemented a stochastic gradient descent algorithm with L2 regularization to optimize a linear regression model using Python and NumPy, demonstrating proficiency in machine learning optimization techniques.
- Utilized Matplotlib to generate informative plots visualizing the objective function history for different settings of the algorithm, highlighting the ability to analyze and communicate machine learning results effectively.

## SKILLS

**Programming Languages:** HTML5, CSS3, JavaScript, PHP, Python, Java, C, C++, MATLAB, SQL, Git

**Tools:** Django, Amazon Web Services, GCP, Azure, GitHub, Jenkins, Jira, WordPress, Adobe Creative Suite