

Sheena Gupta

Full Stack Developer | Software Engineer

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TECHNICAL SKILLS

Frontend: React.js, React Native, Redux, JavaScript, HTML, CSS

Backend: Node.js, Express, SQL, PostgreSQL, Python

Expertise: Pair Programming, Debugging, Deployment, Test Driven Development, Object-Oriented Programming

PROJECTS

Juz-bnb, Full Stack Developer - React | Node | Redux | Express | Postgres | HTML5 | CSS3 [Live](#) | [GitHub Repo](#)

A full stack clone of AirBnB.com where user can create spots, add images and leave review on their favorite spot.

- Implemented full CRUD functionality within an application using REDUX and REACT.js to create, retrieve, update and delete data dynamically.
- Integrated user authentication and Crypt.js for secure password hashing and a safe and protected user experience.
- Implemented session authentication to check permissions when enabling edit and delete feats. All delete buttons were dynamic, allowing users to delete review or spot without the need to reload using event listener and a fetch request.
- Managed and stored data through Express.js and SQL to ease the data flow queries from user interactions.

Shopsy, Full Stack Developer - React | Node | Redux | Python | Flask | Postgres | HTML5 | CSS3 [Live](#) | [GitHub Repo](#)

Shopsy is a clone of Etsy.com and a group project of four aspiring software developers.

- Implemented features such as Products, Reviews, Favorite and Shopping Cart.
- Collaboratively developed and coded application components in an Agile environment.
- Utilized Pair Programming approach to ensure high quality code.
- Lightweight mockup written in one week and built on a React & Redux front-end and Flask back-end with SQLAlchemy as an ORM.
- Built out numerous React components including custom forms with error validations and content display pages with JSX. All forms rendered were implemented as controlled inputs using the useState React router hook.

Tryglasses, Full Stack Developer - React | Node | Redux | Python | Flask | Postgres | HTML5 | CSS3 [Live](#) | [GitHub Repo](#)

Tryglasses is a shopping website for eyeglasses and sunglasses which is the clone of GlassesUSA.

- Utilized ReactJS and Redux / Flux architecture to manage states to render pages for users dynamically to reduce load times, which increased efficiency by storing data in state variables rather than requiring constant database fetches.
- The features implemented are listing products in two different categories, eyeglasses and sunglasses. The user can post a review and each user has a shopping cart and favorite page.
- The splash page shows the recommended products for the user and also display favorite products for a logged-in user. Carousel is implemented to show multiple promotional images.
- Prevented unauthorized users and invalid data by incorporating custom Flask validators and backend authorization.

EXPERIENCE

- VES Institute of Technology, Assistant Professor July'18 - Oct'18
- Delivered lectures to undergraduate students on Image Processing and Wireless Communication.
 - Supervised development of lab work in MATLAB.
 - Designed course materials, including syllabi, handouts, homework assignments and exams.
- Dehradun Institute of Technology, Lecturer Jan'10 - Apr'12
- Delivered lectures on C++ programming for freshman year students.
 - Supervised students laboratory work for communication lab
 - Managed the website for the portion of our department
- R.D Engineering College, Lecturer June'08 - Jun'09
- Delivered lectures to sophomores on Data Structures.
 - Responsible for maintenance, discipline and emergencies in a hostel as a Girl's Hostel warden.
- Neelkanth College of Engineering, Lecturer Jun'08 - Jun'09
- Advised students on academic and on career issues as a counsellor.
 - Actively engaged in student recruitment as a Member of Admissions committee

RESEARCH WORK

Video Search Engine - Image and Video Processing using an Intel® Core™ i7-7500U @ 2.7 GHz processor with 8 GB RAM running MATLAB version R2017 Academic on Windows 10

Designed a Video Search Engine proposing two techniques of Fused Image and Template Matching which turned out to be better than the existing content-based video retrieval methods in terms of key metrics of Average Precision, Recall and Retrieval Efficiency. Presentations and publications:

Title: Template Based Video Search Engine
Conference: International Conference on ISMAC in Computational Vision and Bio-Engineering – 2018, Springer
Organizer: SCAD Institute of Technology, Palladam, Tamil Nadu, India

Title: Fused Image Based Video Search Engine
Journal: International Journal of Video & Image Processing and Network Security
Published: 174305-2929-IJVIPNS-IJENS, October 2017

Title: Video Search Performance Analysis: A Review Paper
Journal: International Journal of Innovations & Advancement in Computer Science (IJIACS)
Published: IJIACS, ISSN 2347 – 8616, Volume 6, Issue 8, August 2017

EDUCATION

- App Academy**, Full Stack Development Jan'23 - July'23
Immersive software development course for a total of ~1,000 hours over a period of 6-month with focus on full stack web development.
- University of Mumbai, India** Masters of Engineering Aug'15 - Apr'17
Masters in Electronics and Telecommunication engineering, Cumulative Grade Point Index: 9.95, with extensive research work in the field of Image & Video Processing
- U.P Technical University, India** Bachelor of Technology July'03 - Apr'07
Bachelors in Electronics and Communication engineering, receiving merit scholarship in every year and achieving cumulative 78.5% marks
- Centre for Development of Advanced Computing, India** Post Graduate Diploma Aug'07-Feb'08
Six month diploma course with final project on Steganography on BMP & Wave Files, achieving A+ Grade