

Syed Ali Hasan

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EDUCATION

The University of Texas at Austin
Bachelor of Science in Civil Engineering

May 2019
GPA: 3.72

SKILLS

- Languages and Databases – Python, JavaScript, HTML, CSS, MATLAB, MongoDB
- Tools –AWS (Elastic Beanstalk, EC2, S3, IAM, Budgets), Git, Bash, Postman, VS Code
- Frameworks – Django, Flask, React.js, Express.js, Node.js, Bootstrap

WORK EXPERIENCE

Structural Engineer, L.A. Fuess Partners

June 2019 – April 2022

Structural engineering firm specializing in commercial, residential, institutional, and industrial buildings.

- Independently managed \$10M-\$60M projects from start to finish, overseeing both the design and construction phases.
- Engineered strong but efficient structural designs for large schools, hospitals, and offices.
- Created spreadsheets to automate manual analyses, improving analysis times by 94%.
- Maintained constant communication with contractors, architects, and other disciplines to ensure our team delivers the best possible product for projects. Coordinated all critical items with them to avoid any surprises that would affect the budget
- Demonstrated strong analytical and problem-solving skills for time-sensitive construction issues.

PROJECTS

Blogging Blobs | bloggingblobs.com | github.com/ali-hasan97/Django-Blog

- Full-stack blog site created using Python's Django framework for the back-end and some Bootstrap for the front-end.
- Users can view everyone's posts but can only create, update, or delete them if they are signed into their profile (verified by Django's built-in user-auth). Posts can also be filtered by category.
- The app uses CKEditor to provide a rich text field for easy creation/editing of blog posts, and it uses python's Pillow library for processing images and profile pictures.
- Deployed using AWS (Elastic Beanstalk, EC2 instances, S3 storage buckets, IAM, Route53).

Pixel Sketch | ali-hasan97.github.io/pixel-sketch | github.com/ali-hasan97/pixel-sketch

- Sketching app created using HTML, CSS, and Javascript. It presents a grid that can be marked in any color or in rainbow mode. Rainbow mode semi-randomly picks the most vibrant colors using a function to only generate HSL colors with 100% saturation and 50% lightness.
- Each cell in the grid can be lightened, darkened, erased, or resized as defined by JavaScript functions.

Portfolio Site | syedalihasan.com | github.com/ali-hasan97/portfolio

- Responsive portfolio site created using ReactJS to display projects.
- Uses emailJS for sending emails containing data from a 'Contact Us' form.