

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 – Python, JavaScript, C, HTML, CSS, MATLAB
- Tools – AWS (Elastic Beanstalk, EC2, S3, IAM, Budgets), Git, Bash, Postman
- Frameworks and databases – Django, Flask, ReactJS, NodeJS, Express, Bootstrap, MySQL, MongoDB

WORK EXPERIENCE

Structural Engineer, L.A. Fuess Partners (06/19 – 04/22):

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

- Contributed to the development of a web application used by 50 users daily to replace an essential in-house concrete design application created in the late 90s.
- Created the back-end using the Python framework, Django, and its libraries NumPy and Pandas. Also created a Django Rest Framework API to transfer data to and from the ReactJS front-end.
- Contributed to the front-end by developing some ReactJS components and styling them using CSS.
- Created several spreadsheets to expedite vibration analysis, joist reinforcing analysis, etc.
- Lead structural engineer on a few \$10M-\$60M projects, overseeing both the design and construction phases.

PROJECTS

Blogging Blobs | <https://bloggingblobs.com/>

- Full-stack responsive 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. 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, S3).

Pixel Sketch | <https://ali-hasan97.github.io/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 | <https://syedalihasan.com/>

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