Syed Ali Hasan

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EDUCATION

The University of Texas at Austin   **May 2019**
Bachelor of Science in Civil Engineering   **GPA: 3.72**

SKILLS

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

WORK EXPERIENCE

Structural Engineer, L.A. Fuess Partners (06/19 – 04/22):
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.
- Created several spreadsheets to automate vibration analysis, joist reinforcing analysis, etc.
- Worked with contractors, architects, and several other disciplines to deliver the best possible product for projects. Coordinated critical items to avoid any surprises that would affect the budget, effectively communicating our wants and needs with other disciplines to keep all parties satisfied.
- Applied logical and analytical skills to produce solutions for time-sensitive construction problems.
- Performed complex analyses on large-scale structures to provide strong, efficient designs.

PROJECTS

Blogging Blobs | bloggingblobs.com

- 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. 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 | 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 | syedalihasan.com

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