

## CSE 442 Script

1. For our web application, we used a popular tech stack called MEAN, which stands for mongodb expressJS, AngularJS and Node.js we don't use AngularJS however.
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3. Mongodb is a Platform as a service and it is also a noSQL database program as it is a non-relational data model.
4. -----
5. ExpressJS is a web framework that allows us to easily run node.js code on our server and render the pages that we need for our web application. Express also has features that allow us to easily run our web application such as a templating engine, ways to access a database and a model view controller architecture.
6. -----
7. Node.js is a server side language that allows us to run javascript on our browser, it has syntax like javascript. Javascript by itself is typically only run in the browser, but Node.js allows us to run it on a server. Node.js also has a ton of modules that give us access to their libraries
8. -----
9. Now i'm going to talk about how we stored our user's resumes. First when the user signs up, we take the resume from the form and then we upload the file to our server using an NPM package called "multer", we then convert the PDF file to PNG using a NPM PDF-IMG then we upload the png to the Amazon S3 bucket and we grab the link from the bucket and we store the link to the

database, instead of storing the actual image in our database.  
Using that link we display the images to the web app.

10. -----
11. We deployed our web application using AWS by creating an EC2 instance.
12. We secured our web application using certbot-auto and nginx
13. We also use mlab to have a database in the cloud.