

# MATT DAVIS

SOFTWARE DEVELOPER

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http://mattdavis.tech



mattsplats



mattsplats



users/6630134

## LANGUAGES

- Fluent: HTML5, CSS3, Javascript (ES6 / 2015)
- Proficient: Java, Python, C++

## FRONT END

- UI: Bootstrap, Materialize
- jQuery, AJAX/XHR & APIs
- Templating (Handlebars.js)
- React.js: Flux/Redux, React Router

## BACK END

- Node.js / Express.js
- Database: MySQL, MongoDB
- ORM: Sequelize, Mongoose
- OAuth: Passport.js
- Websockets: Socket.IO

## COMPUTER SCIENCE

- Algorithms: sort/search, graph, greedy, dynamic programming, NP-complete heuristics
- Data Structures: red-black BST, heaps, hash tables, kd-tree, prefix tree, union-find

## ADDITIONAL SKILLS

- ML: TensorFlow, numpy
- AI: Alexa SDK, AWS Lambda
- VR: A-Frame (WebVR)
- Unit testing (Mocha / Chai)
- Web scraping (Cheerio.js)
- Git/Github, Heroku, Firebase.IO

## EXPERIENCE

### TUTOR, CODING BOOTCAMP

Trilogy Education, Austin TX | 2016 - Present

Online/in-person tutor for Trilogy-hosted bootcamps (Austin/nationwide)  
Taught Javascript fundamentals and web dev topics to dozens of students

### STUDENT, CODING BOOTCAMP

UT Coding Bootcamp, Austin TX | 2016 - 2017

Worked with teams to plan, code, deploy, and present large projects  
Implemented and deployed over 20 complete web applications

## PROJECTS

### LANE LINES | [Github](#)

- Created an image processing pipeline for detecting and displaying lane lines from road video using Hough transforms and Canny edge detection
- Powered by OpenCV and numpy, uses a Jupyter notebook on the Anaconda data science platform for Python

### VR-ALEXA | [Live](#) | [Github](#)

- Allows you to create a virtual 'pet' and do battle with other pets using Amazon Alexa commands, by a two-dev team
- Created an A-Frame VR scene with React components, Express routing with Socket.IO to push Alexa commands to the front end in real time
- Based on React Router with a Flux architecture and bcrypt authentication

### CHEEVR | [Live](#) | [Github](#)

- Allows users to create their own true-false or multiple-choice quiz and answer questions via Amazon Alexa, by a three-dev team
- Created Sequelize / MySQL database model, public quiz API on Node.js / Express, MVC app architecture, dynamic form fields via jQuery, Login with Amazon via Passport.js, Amazon Alexa skill with authentication

## PREVIOUS EXPERIENCE

### OWNER / A/V PROGRAMMER

CyberCore Custom Tech, Austin TX | 2014 - Present

Design/programming of large (\$20k+) commercial/residential A/V systems

### ELECTRONIC MEDICAL RECORDS TECHNICIAN

Gastroenterology Associates, Abilene TX | 2012 - 2013

Assisted in converting 10k patient records to cloud-based EMR system

### TEST PREP INSTRUCTOR (LSAT)

The Princeton Review, Dallas TX | 2008 - 2011

Taught logical skills, gave presentations at area universities (100+ groups)

## EDUCATION

**SELF-DRIVING CAR NANODEGREE (CURRENT)**  
**ALGORITHMS SPECIALIZATION**  
**CERTIFICATE, WEB DEVELOPMENT**

Udacity  
Coursera / Stanford  
UT Austin Coding Bootcamp