SHAUN JACKSON

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As a curious soul, I value continual learning and am passionate about full stack development. I bring 3+ years experience- ranging from low level embedded systems to both frontend and backend services.

EDUCATION

B.S., Electrical Engineering, Emphasis in Embedded Systems, UC Davis 2013 - 2018

EXPERIENCE

Full Stack Developer, shaunjacks.com 9/2019 - Present

- Deploy Node JS backend on Heroku that handles OAuth authentication and JWTs, commenting system, and contact messaging data stored on Mongo DB database
- Serve frontend on Google Firebase, developed with Gatsby, React, HTML, and CSS in JS
- Interface frontend with backend services via REST APIs

Tech Stack: MongoDB, Javascript (Node, Gatsby, React), JWTs, Google Cloud Firebase, Heroku

Data Specialist and Consultant, UC Davis Health 6/2018 - Present

- Write MySQL transactions and stored procedures to ensure data integrity for 90+ tables
- Optimize RDBMS performance 2-fold through database indexing and caching
- Architect interactive data visualization of location data with Google Cloud Maps API and R, increasing recruitment from ~300 to ~3000+ participants
- Present 1st author data analyses at International Society of Autism Research Conference

Tech Stack: SQL (MySQL, MS ACCESS), R (Shiny, ggplot, plotly, RODBC, testthat),

PROJECTS

Workshop Development and Coding Instructor, UC Davis Health 7/2019

- Develop Intro to R online curriculum to teach researchers essential R constructs
- Conduct 3 hour interactive workshop on Data Exploration, Analysis, and Visualization

Google Cloud Vision R Shiny Application, at HackDavis19 3/2019

- Draws facial landmarks, object localization, landmark detection, label detection, text detection

Tech Stack: R (Shiny, magick), Google Cloud (Vision)

Deep Learning Detection of Malaria 1/2019 - 2/2019

- Train Deep Learning Model using Transfer Learning with resnet34 on an AWS EC2 instance
- Classify Malaria cells with 97.3% accuracy

Tech Stack: Python (fastai, Jupyter Notebooks), AWS (EC2)

Text to Speech Language Translation Service, UC Davis 1/2018 - 3/2018

- Create embedded systems IoT language translation and text to speech application
- Microcontroller takes infrared input, sends REST APIs to AWS IoT, translates and converts to speech with Google Translate / AWS Lambda / AWS Polly, user receives audio translation with AWS SNS

Tech Stack: C / C++, AWS (Lambda, Polly, SNS, IoT), Google Cloud (Translate),

Autonomous Car Senior Design, UC Davis 9/2016 - 6/2017

- Interface microcontroller using C with camera sensor, servomotor, and DC motor
- Demonstrate autonomous battery-powered racecar (NATCAR) at UCD Engineering Showcase

Tech Stack: C / C++, EAGLE CAD