

# IONA P.J. OLIVE

Austin, TX | ionapjolive@gmail.com  
512-599-3777 | linkedin.com/in/ionapjolive  
github.com/ionapjolive | ionapjolive.com

A little about me: *Teaching is fun, but coding is more fun. Also, I am the very model of a modern major general's daughter.*

## TECHNICAL SKILLS:

Strong: JavaScript | React | Git | Node | Sequelize | RESTful API | TDD | Mocha | Express | Postman | Chai  
Experienced: | HTML | Mongo | SQL | ChartJS | Agile | Flexbox | Waffle.io | Lodash | MATLAB | Digital Ocean

## SOFTWARE ENGINEERING APPLICATIONS:

### Crew Builder | crew-builder.herokuapp.com | Building teams for grass roots support

- Constructed a RESTful API to reliably deliver well-structured data from a Sequelize/Node/Express backend
- Tested API to ensure accuracy and structure of data using Postman and Mocha with Chai BDD style assertions
- Leveraged Sequelize ORM to allow for promise-style interactions with a PostgreSQL database in API controllers
- Architected PostgreSQL database schema, ensuring integrity in accounting for user points earned and spent

### Sit-n-Paws | doghouseio.herokuapp.com | Putting a woof over your head

- Refactored legacy code into a single-page React app to enhance visibility of features for unregistered users
- Redesigned Material UI app toolbar to include high-priority features in a more intuitive layout
- Coached development team as Scrum Master, using Waffle.io and GitHub for issue tracking

### HealthMe | beanieio.co.uk | The modern world's health journal

- Styled components and dashboard for responsiveness on both traditional browsers and mobile devices
- Designed activity feed to summarize recent user activity and trends with intuitive material design icons
- Bent ChartJS canvases to my will by exploiting React lifecycle events to dynamically re-render on new activity

## PROFESSIONAL EXPERIENCE:

### High School Math and Science Teacher

*Austin ISD and Hays CISD* 2006-2009 and 2015-2017

- Led instructional teams in the design of algorithmically generated assessments
- Designed blended learning courses for Physics and Algebra 2 students on a private server using Moodle LMS

### Lecturer/Researcher

*The University of Texas at Austin* 2010-2014

- Delivered curriculum and instruction in engineering numerical methods with MATLAB
- Conducted STEM outreach workshops and demonstrations for K-12 students
- Authored software in MATLAB to process time-series data for rock mechanics experiments

### Hydrologic Technician

*The United States Geological Survey* 2004-2006

- Developed a relational database to map historic (1886 to 2006) water chemistry data for 232 Texas springs
- Simulated rainfall-runoff events and processed reports using Perl/sed/AWK scripts

## EDUCATION:

Hack Reactor | Advanced Software Engineering Immersive | Scholarship Recipient 2017

M.S. Petroleum Engineering | The University of Texas at Austin 2013

B.S. Geosystems Engineering and Hydrogeology | The University of Texas at Austin 2005