

JACOB S. ANDERSON, PH.D.

Fort Worth, TX – Open to Relocation

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FULL-STACK/BACKEND DEVELOPER

Full stack developer with a twist of science. Passionate about working with diverse teams that have the shared vision of developing software with a positive purpose.

PORTFOLIO PROJECTS

STONKTA.COM | 6/2020 – 1/2021 | (<https://github.com/jande48/StockData>)

- StonkTA.com (<https://stonkTA.com>) is a community where stock traders can easily analyze charts and provides a social platform to communicate with other traders.
- StonkTA.com was developed from feedback on trading subreddits, where users wished to include charts and technical analysis (TA) along with their comments.
- Backend: Python Flask
 - Blueprints to connect routes and models
 - Python Pandas & Numpy libraries for data analysis
 - Multi-threading API calls & caching for performance
 - Bcrypt & JWT tokens for security
 - PostgreSQL database
- Frontend: React / Redux / Javascript / HTML / CSS
 - React Hooks for creating JSX components
 - State-management with Redux store
 - D3.js Library for data visualization
 - React-Router for faster performance
 - Semantic UI / JQuery / custom CSS
- Deployment: AWS EC2
 - Ubuntu / Nginx server / Gunicorn WSGI
 - SSL certification

VOLUNTEERING

BRIDEBUILDERS INFOGRAPHIC | 6/2020 – 1/2021 | (<https://github.com/jande48/BridgeBuildersInfographic>)

- <https://bridge-builders-infographic.herokuapp.com/>
- Bridge Builders is a non-profit organization seeking an infographic about their scholarship recipients.
- Backend: Python Flask
 - Authentication & data entry routes for updating data & committing to an SQLite database
- Frontend: React / D3
 - D3 nested bubble chart for zooming, highlights, and display student data
 - ReactJS and React-Router-DOM

Additional Experience (Volunteerism and Internships): Volunteer, Engineers without Borders, La Paz, Bolivia: 2010 – 2011 / Offshore Maintenance Engineer, BP: 2007 / Reservoir Engineer, ExxonMobil: 2005

EDUCATION

The University of Texas at Austin: 2017 – *Doctor of Philosophy, Geological Sciences (GPA: 3.6)*

- **Dissertation:** Compositional Changes of Light Hydrocarbons during Migration through Overburden
- Modeled geochemical changes in MATLAB/Python and developed a C++ plug-in for commercial software.

Boston College: 2013 – *Master of Science, Geological Sciences (GPA: 3.5)*

- **Thesis:** Geochemical Tracers of Road Salt in Groundwater

Louisiana State University: 2008 – *Bachelor of Science, Petroleum Engineering***ADDITIONAL CREDENTIALS**

PROGRAMMING	Python (Flask/Django), ReactJS, Javascript, NodeJS, HTML/CSS, Redis, SQL, Redux
LINKS	https://github.com/jande48 https://stonkTA.com https://rockphysics.herokuapp.com/ https://www.linkedin.com/in/jacob-anderson-dev/
LANGUAGES	English, Spanish
HONORS & AWARDS	UT Presidential Fellowship Award, Tops Scholarship, Petroleum Engineering Scholarship, National Society of Collegiate Scholars, Tau Beta Pi
ORGANIZATIONS	Geological Society of America, Society of Petroleum Engineers
VOLUNTEERISM	Board member Southwest Louisiana Geophysical Society, Engineers without Borders
INTERESTS	Avid kayaker, traveler, and soccer player

DETAILED REFERENCES AVAILABLE ON REQUEST