Kevin L. Miller, Ph.D.

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Portfolio: https://kevin-miller-react-portfolio.herokuapp.com/

SUMMARY

Full-Stack Web Developer with a Ph.D. in chemistry from the University of California, Los Angeles (UCLA). Education in full-stack development from UCLA. Experienced scientific thinker, researcher, and problem-solver. Values community, ethics, integrity, and good business sense, having spent years as a business manager, teacher, and scientist. Extensive teaching experience lends itself to public speaking, leadership, and teamwork skills. Top aim is to contribute to a team while continuously pursuing self-improvement. Seeks to improve the lives of teammates and clients, whether that be in the real world or the digital world.

TECHNICAL SKILLS

- JavaScript/HTML/CSS used as main coding languages. Python as secondary language, with ability and skill to learn further languages.
- Emphasis on MERN stack technologies (MongoDB, Express, React, and Node.js) for front-end and back-end design, database management, routing, and client-server communication
- Use of established libraries for streamlining development, such as Flask, Redux, jQuery, Handlebars, Jinja, Sass, and Bootstrap
- SQL database work, through MySQL, SQLite, SQLAlchemy, and Sequelize
- MongoDB along with Mongoose or mongo.js, for non-relational database management
- Coding techniques include object-oriented programming, asynchronous function handling, mobile-responsive web design, and code testing with tools such as Postman
- AJAX calls for retrieving data from and integrating APIs
- Ability to integrate additional libraries - for example, React-Spring, Moment.js, or Node Package Manager packages such as Inquirer
- Skill in researching additional programming languages and techniques - for example, Python and basic C/C++ programming accomplished through self-study and professional certification

PROJECTS

- Back-end and front-end coding performed for a wide variety of projects using different technologies. First see portfolio at https://kevin-miller-react-portfolio.herokuapp.com/, for full details.

Color Rippler | https://bit.ly/color-rippler | https://bit.ly/color-rippler-github

- A solo coded art project that takes advantage of the React and Redux frameworks to efficiently render up to thousands of interactive components in the DOM.
- Combines front-end design with back-end JavaScript algorithms. Data storage and user authentication are accomplished with MongoDB. Node, Express and React provide a back-end framework.

Express Bartender | https://bit.ly/express-bartender | https://bit.ly/express-bartender-github

- Executed lead back-end scripting for a small team of coders. Led back-end database design and routing design for the team. Programmed storage and updates of user information with SQL database.
- Helped teammates solve code difficulties, reviewed team code on GitHub, and contributed to front-end and overall website design.
- Programmed SQL database of drink recipes to cater to authenticated users. Acquired database information using AJAX calls to interact with APIs.

EMPLOYMENT

Twinwood, Inc.:

Property Manager and Accountant   *October 2013 – August 2020*

- Rigorous documentation and coordination of construction projects, with spending in the hundreds of thousands, benefited both tenants and the company through substantial property improvement
- Contributed to business decision making, such as management of over a dozen buildings, and purchasing decisions for properties worth millions
- Meticulous business analytics helped achieve a yearly company growth rate of 3.6% of net worth

Praxair:

Lab Technician and Analytical Scientist   *October 2014 – February 2015*

- Carefully managed lab testing allowed for a fast throughput of dozens of highly pure gasses daily

University of California, Los Angeles:

Researcher / Teaching Assistant   *Sept. 2007 - December 2014*

- Intense scientific research led to seven published research papers
- Personal mentoring of two undergraduates helped them publish their own scientific papers
- Chemistry research was awarded Ralph and Charlene Bauer Award, as well as two separate fellowship awards
- Close supervision of hundreds of undergraduate students in both labs and discussion sections, during teaching of over a dozen college-level chemistry discussion courses

EDUCATION

CS50 Professional Certificate – HarvardX Online
Full-Stack Web Development Coding Bootcamp – UCLA Extension
Ph.D., Chemistry - University of California, Los Angeles
B.S., Chemistry - University of California, Irvine