

# Kevin L. Miller, Ph.D.

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**LinkedIn:** [www.linkedin.com/in/kevin-miller-phd-1b197986/](https://www.linkedin.com/in/kevin-miller-phd-1b197986/) | **GitHub:** [github.com/Koldenblue](https://github.com/Koldenblue)

**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
- 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
- Research and use of established libraries for streamlining development, such as Redux, jQuery, Handlebars, Sass, and Bootstrap
- SQL database work, through MySQL and the Sequelize Object-Relational Mapper (ORM)
- 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
- AJAX calls for retrieving data from and integrating APIs
- Ability to quickly learn additional libraries - for example, React-Spring, Moment.js, or Node Package Manager packages such as Inquirer
- Ability to quickly learn additional programming languages and techniques - for example, Python and basic C/C++ programming accomplished through self-study and professional certification

## PROJECTS

**Color Rippler** | <https://bit.ly/color-ripper> | <https://bit.ly/color-ripper-github>

- A single-handedly designed and coded art project that takes advantage of the React and Redux frameworks to efficiently render a large number of interactive components.
- Combines front-end design with algorithms and MongoDB storage for dynamic interactivity

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

- Led a small team in back-end database design and storage of user information. Reviewed team code and contributed assistance to front-end website design.
- Programmed SQL database of drink recipes to cater to authenticated users. Coded database queries to add, modify, and delete user recipes. Acquired initial database information using API calls.

**Inform and React** | <https://bit.ly/inform-react> | <https://bit.ly/inform-react-github>

- Executed lead back-end scripting for a small team of coders, helping others solve code difficulties. Programmed all routes and led database design. Performed code review and overall project design.
- Designed and coded a React-driven app with a goal of providing voter information. Programmed AJAX calls to API databases, database storage with MongoDB, and user authentication routes.

## **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**