

# Ryan E. Ellingson

Email: [ellin150@umn.edu](mailto:ellin150@umn.edu)

LinkedIn: <https://www.linkedin.com/in/ryan-ellingson-25171614>

GitHub: <https://github.com/RyanEllingson>

Portfolio: <https://ryanellingson-portfolio.netlify.com/>

## Summary

Java Developer and Full Stack Web Developer with a background in Chemical Engineering and a passion for learning new skills. Has certifications as an Oracle Certified Foundations Associate in Java, as well as from an intensive 3-month web development boot camp gaining proficiency in multiple front and back end JavaScript technologies. Known as a barrier-buster who combines strong technical acumen with the ability to build relationships with multiple parties in order to get the job done.

## Technical Skills

**Front End Technologies** – HTML5; CSS3; JavaScript; Bootstrap; React.js; Angular; Axios

**Back End Technologies** – Java; Maven; Node.js; Express; SQL, MongoDB and Firebase databases; database object modelling packages including Sequelize and Mongoose; testing packages including JUnit, Jest and Mocha; Postman; user authentication

## Projects

**Crypto Tracker** | <https://github.com/RyanEllingson/Crypto-Tracker> | <https://ryan-crypto-tracker.herokuapp.com>

- Full stack Java/Angular web application that allows users to monitor the price history of various cryptocurrencies. Users can register and log in, as well as save selected currencies to their portfolio for convenient monitoring later. Price histories are displayed in interactive graphs showing data for either the last 24 hours or 30 days.
- Responsibilities included doing the preliminary visual design for the application and defining the components that would be used to construct the app, building many of the components, generating the interactive plots, and doing CSS styling. Additionally, rebuilt the entire Java back end and SQL database from scratch to enable deployment on the web.
- Technologies used: Java, Maven, PostgreSQL, Angular, Bootstrap, Plotly.js

**Maven Banking App** | <https://github.com/RyanEllingson/maven-banking-app> | <https://maven-banking-app.herokuapp.com/home>

- Full stack Java web application designed to simulate a bank. Application manages users and accounts, and provides an interface for employees and customers to view information in the database and perform transactions.
- Responsible for building the entire application, including the HTML/JavaScript front end, setting up the servlet API, user authentication logic, JDBC layer, defining POJO models and setting up the relational database
- Technologies used: Java, Maven, PostgreSQL, HTML, JavaScript, Axios, Bootstrap

**Final Fantasy XIV Gathering Companion** | <https://github.com/RyanEllingson/ffxiv-gathering-companion> | <https://ffxiv-gathering-companion.herokuapp.com/>

- Full stack React application designed for players of the game Final Fantasy XIV which allows users to search for information on gatherable items, see the current in-game time, and set up alarms alerting them when desired items are available to be gathered
- Responsible for building the entire application, including building the React front-end, defining API routes on the back-end, setting up and populating the database with item information, and writing automated tests for all back-end functionality
- Technologies used: JavaScript, React.js, Node.js, Express, Axios, MySQL, Jest, Cookie-Session, Moment.js, HTML, CSS, Bootstrap

## Experience

**Staff Process Technology Engineer**  
**Arkema, Inc.**

2017-2019  
Geneseo, NY

Provided day-to-day and on-call technical support for benzoyl peroxide (BPO) production process, identified areas for safety/quality/productivity improvements, and managed all relevant procedures and other controlled documents.

### *Key Accomplishments:*

- Performed root-cause investigation for BPO decomposition incident in the process and worked with operators and capital team to design and implement corrective actions
- Participated as a key contributor in cross-functional teams including Process Hazard Analysis team and in pharmaceutical customer audits

## Education

**Full Stack Web Development Certificate:** University of Minnesota, Minneapolis, MN  
**Bachelor of Chemical Engineering:** University of Minnesota, Minneapolis, MN  
**Bachelor of Science, Microbiology:** University of Minnesota, Minneapolis, MN