

BENJAMIN KINGA

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Software Projects

Trello Redesign and Copy work | June-July 2020

- Currently implementing Trello.com functionality with **React** and **Urql**, with a **GraphQL** backend endpoint pointing to a **PostgreSQL** database.
- Maintaining toolchain beyond create-react-app, via configuring **Parcel** and **Babel**. Incrementally adding necessary functions such as **PurgeCSS**.
- Leveraging intermediate functionality in React to optimize coding performance, such as custom hooks to separate coding logic from UI components, **React Context**, and Higher Order Components to subscribe to and modify state updates.

Full-Stack Anonymous Message Service | April 2020 |

- Designed, developed, and deployed an anonymous messaging web application titled "Message in a Bottle" with React client-side rendering and **AWS Lambda** serverless back-end.
- Adopted modern React practices utilizing Hooks and Effects to replace component lifecycle methods and to maintain data flow, and adopted ES6 syntax with **Async/Await** calls and Promises.
- Version controlled and featured modified using best-practices with **Git** and **GitHub**.
- Developed and maintained CRUD mechanisms with Non-Relational Database **MongoDB**, built with **Mongoose** and controlled with CORS-enabled HTTP requests/response.

Trading Analytical Tools | July 2020 |

- Currently developing a Trading Dashboard to analyze stock and options, built in ReactJS, **TailwindCSS** and custom charts in **D3**.
- Implemented short polling for real-time feedback to stock market movements, and custom **debounce** function for search performance optimization.

Work Experience

Arconic | Lancaster, PA

Mechanical Engineering Intern | Summer 2017, Summer 2018

- Generated over \$10,000 in annual savings by optimizing current manufacturing processes through MATLAB, reducing manufacturing downtime and maintenance hours in 2017.
- Eliminated certain future equipment failures through analyzing root-based failure causes and implementing mitigation procedures on equipment used in four different manufacturing plant.
- Wrote and presented bidding specification, detailed documentations, and developed general administrative skills (e.g., scheduling meetings, Microsoft Office, Professionalism and Punctuality).

Skills

Programming Languages	Applications	Frameworks / Libraries
JavaScript (ES5/ES6+), Python, MATLAB, Java	Android Studio, Git/GitHub, Netlify, Slack, AWS Lambda,	React, Express, GraphQL (Urql & Apollo), Prisma, NodeJS, TailwindCSS, Flask, Mongoose

Education

Cornell University

Bachelor of Science in Mechanical Engineering
GPA: **3.67** | Uncompleted Degree

University of Tennessee, Knoxville

Chancellor's Honors & Engineering Honors Program
GPA: **3.95** | August 2015 – May 2017