

BENJAMIN KINGA

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Software Projects

Open-Source Software | September 2020 – Present

- *@SnowpackJS/Snowpack*: Wrote test suite for multiple plugins with **Jest**, including **mocking** Node processes and generating **snapshots** for Snowpack—a development-focused front-end build tool.
- *@Pytorch/Ignite*: Implemented a new feature for Ignite’s main Engine software. This gives users finer control on how to train their machine learning models. Developed in **Python**, including unit tests and documentations.

“Calendo”: Interactive Calendar Application | October 2020

- Developed an event-driven, interactive drag-and-drop calendar application—similar to Google Calendar—with **TypeScript** and **React**.
- Created the application architecture by relying on React **Context** and controlling the logic with **event delegations** and a custom event handler state.
- Created modular, composable components with React and **CSS Modules**, improving reusability across the application.

“Trella”: Copy work of Trello | August 2020 - Present

- Currently implementing Trello functionality with a **GraphQL** server and PostgreSQL database, developed in **Node** and deployed on AWS.
- Improving the Front-End by creating an interactive, “optimistic UI.” This will provide instant feedback to the client, while performing data validation asynchronously.

Trading Analytical Tools | July 2020

- Developed a dashboard to analyze current market stocks and bonds. Built in React, **D3**, and **TailwindCSS**.
- Implemented a debounce method to improve search query performance, polled the API for real-time data, and handled **authentication** for generating access tokens to the external API.

Work Experience

Arconic | Lancaster, PA

2x Mechanical Engineering Intern | Summer 2017, Summer 2018

- Generated over \$10,000 in annual savings by optimizing current manufacturing processes with MATLAB, reducing manufacturing downtime and maintenance hours in 2017.
- Determined equipment failures through root-based failure analysis and implemented mitigation procedures on misused equipment used in four different manufacturing plants

Skills

Programming Languages

JavaScript, TypeScript,
Python, C

Applications

Android Studio, Git, Netlify, AWS
(Lambda, EC2, RDS), MongoDB,
PostgreSQL

Frameworks / Libraries

React and NextJS, GraphQL, Node,
TailwindCSS, Flask, Mongoose, D3

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 (transferred)