

# Hassan Toor

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## PROJECTS

**Quicknote** | JavaScript, React, Redux, Ruby on Rails, PostgreSQL [LIVE](#) | [GITHUB](#)

*Full stack single page note taking app with notebook/tagging organizational capabilities.*

- Implemented a rich text editor, while providing users an efficient autosave mechanism through state comparison
- Utilized Rails associations on the backend to allow for a seamless note filtering solution on the frontend
- Optimized backend code to minimize redundant queries to the database through the use of prefetching, ultimately allowing for a smoother user experience
- Engineered custom React components to provide a DRY codebase with maximum flexibility

**Cellular** | JavaScript, HTML5, CSS3 [LIVE](#) | [GITHUB](#)

*Interactive cell-survival JavaScript game using HTML5 Canvas elements*

- Implemented 3 different game modes, including a local competitive multiplayer mode
- Engineered a 2D physics engine to allow for smooth movement across game board
- Constructed a collision detection system that allows smaller cells to be consumed

**kingDOM** | JavaScript [DEMO](#) | [GITHUB](#)

*Lightweight library that simplifies DOM manipulation, event handling, and AJAX requests*

- Utilized native JavaScript DOM API in order to manage library's core DOM functionality

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## SKILLS

JavaScript | React | Redux | jQuery | Rails | Ruby | Python | SQL | HTML | CSS | Heroku | TDD | Git

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## EXPERIENCE

**Texas Instruments - Applications Engineer Intern** JUNE 2014 - AUG 2014

- Developed evaluation module lab testing methods and utilized acquired data to produce a 28 page User Guide to be distributed among customers to solve common questions
- Repurposed design of particular PMIC to allow for low-cost overheat detection functionality. Created app note to provide ease-of-use and setup for customers

**Texas Instruments - Validation Engineer Intern** MAY 2013 - AUG 2013

- Coordinated lab automation setup for IC testing using LABVIEW/TestStand which allowed for a 75% team-wide increase in validation testing efficiency

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## EDUCATION

**App Academy - New York, NY** OCT 2016 - JAN 2017

- Intensive 1000+ hour full-stack programming school with < 3% acceptance rate and an emphasis on algorithms and data structures

**Rose-Hulman Institute of Technology - Terre Haute, IN - Electrical Engineering** 2010-2014

- Relevant Coursework: Object Oriented Programming, Linear Algebra, Discrete Math