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## TECHNOLOGIES

**STRONG :** JavaScript · ECMAScript 6 · React · Redux · jQuery · CSS3 · HTML5 · PostgreSQL · Node.js · Passport · Express · RESTful APIs · MongoDB · Mongoose · Git · Agile Development

**EXPERIENCED :** Backbone · Bootstrap · AngularJS · Ruby · D3 · SQLite · Knex · Mocha · Chai · Grunt · Gulp · Webpack · Amazon Web Services · Heroku · DigitalOcean · LaTeX

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## RECENT APPLICATIONS

- Hackalope** · A crowdsourced app for learning to code · Software Developer hackalope.io
- Implemented React/Redux frontend utilizing Material UI tools and components
  - Designed MongoDB schemas and created library of database controllers
  - Constructed Node.js/Express server to support frontend queries and views
  - Established Passport authentication system for user and administrator accounts
- CardCast** · A collaborative presentation platform for Chromecast · Software Developer cardcast.tylerholzer.com
- Refactored legacy AngularJS code and improved UX by implementing key features
  - Augmented Node/Express routes to support new Angular modules and directives
  - Generated MongoDB/Mongoose queries and schema for storing user data
  - Used Chromecast SDK to facilitate communication between sender and receiver
- Echoes** · A living listening history app · Product Owner and Software Developer echoes.tylerholzer.com
- Architected and built React app with Bootstrap design to ensure intuitive UI
  - Facilitated interaction between user, iTunes API, and PostgreSQL database
  - Developed robust Node/Express backend with user authentication system
  - Articulated project vision, scope, and UI/UX goals as product owner

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## PROFESSIONAL EXPERIENCE

- Fifth Avenue Committee** · Brooklyn, NY · High School Equivalency (HSE) Coordinator 2011 – 2017
- Developed curriculum and trained NYC educators on teaching through problem-solving
  - Designed class schedules, managed staffing, and attended to program budget
  - Teach two HSE classes per cycle and coordinate program data collection and reporting

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## PUBLICATIONS

- Coauthored *Barron's ACCUPLACER Mathematics* 2017
- Coauthored "Problem Posing and Problem Solving in a Math Teacher's Circle," *Journal of Research and Practice for Adult Literacy, Secondary, and Basic Education*, Spring 2017 2017
- Created mathmemos.org, a site for adult education mathematics professional development 2016
- Coauthored the *CUNY High School Equivalency Curriculum Framework* in Mathematics 2015

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## EDUCATION

- Hack Reactor** · Austin, TX · Advanced Software Engineering Immersive 2017
- University of Nebraska at Omaha** · Omaha, NE · Master of Arts · English 2010
- University of Nebraska at Omaha** · Omaha, NE · Bachelor of Arts · History 2005
- Relevant Coursework:** Calculus I, II, and III; Differential Equations, Mathematical Analysis

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## PERSONAL

Avid cruciverbalist · Multi-instrumentalist · Math education evangelist · Topo Chico enthusiast