

Hilary Mallar

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SUMMARY

Full-stack web developer and experienced verification engineer with debug and problem-solving skills. Established self-starter with attention to detail and organization. Grasps new concepts quickly and efficiently.

TECHNICAL SKILLS

React, React Native, React Native Web, JavaScript, HTML, CSS, Bootstrap, Java, jQuery, Node, Express, MySQL, Sequelize, MongoDB, Responsive Design, APIs, JSON, Firebase, Git, Heroku, LaTeX

PROJECTS

Unpopular Baby | github.com/hgmallar/uncommonBaby | <https://www.unpopularbaby.com/> | <https://play.google.com/store/apps/details?id=com.unpopularbabyapp>

Search for names using popularity by decade and/or letter placements.

- Created SQL database with SSA data of name and popularity by decade.
- Created backend API to serve Android mobile app.
- Coded using React, React Native, Chart.js, SQL, Sequelize, Node, and Express. Uses Bootstrap, Font Awesome and Google Fonts styling. Mobile responsive.

Youth Rally | github.com/hgmallar/youth-rally | <https://www.youthrally.org/>

Informative website and custom store for non-profit organization, The Youth Rally, Inc.

- Coded using React.js, HTML, CSS, and JavaScript. Uses Bootstrap, Font Awesome, and Google Fonts styling. Mobile responsive.

Integer Tiles | <https://github.com/hgmallar/integerTilesWeb> | <https://www.integertiles.com> | <https://play.google.com/store/apps/details?id=com.integertiles>

Practice integer operations with virtual manipulatives.

- Coded using React, React Native, React Native Web, HTML, CSS, and JavaScript.

EXPERIENCE

Full Stack Web Development Bootcamp Teaching Assistant – *Trilogy Ed* – UNC Chapel Hill, Raleigh, NC **2019 - 2020**

Assisted students in learning web development.

Key Accomplishments:

- Supported students in their projects and challenges.
- Provided feedback on assignments.

Math Editor – *Aztec Software* – Remote

2015 - 2020

Created and edited supplemental materials for web application of preparatory materials for high school equivalency exams. Interfaced with software team to fix bugs. Fielded customer content and software questions.

Key Accomplishments:

- Communicated effectively to remote team and took on extra work to help meet deadlines.
- Implemented new technology solutions to make the team more efficient.

Math and Computer Science Teacher – *The Bronx High School of Science* – Bronx, NY

2009 - 2013

Taught Geometry, Precalculus, and Computer Science Projects. Created unit and lesson plans emphasizing real-world problems and applications. Integrated technology into the classroom.

Key Accomplishments:

- Mentored and advised the all-female FIRST FRC Robotics Team, the FeMaidens.

- Collaborated with colleagues to establish best practices and curriculum maps that integrated the Common Core Standards.

Hardware Verification Engineer – IBM – Poughkeepsie, NY

2002 - 2008

Verified processor chip logic designs through random unit and element level simulation. Debugged test case failures and analyzed results. Problem solved to maximize coverage statistics. Programmed simulation environment using C, C++, and Perl.

Key Accomplishments:

- Led a multi-site unit hardware verification team through project completion.

EDUCATION

University of North Carolina, Chapel Hill, NC – **Full Stack Web Development Bootcamp**

Bard College, Annandale-on-Hudson, NY – **Master of Arts in Teaching Secondary Mathematics Education**

North Carolina Out of State Initial Educator License (2016)

New York State Secondary Mathematics Professional Teaching Certificate (2012)

Syracuse University, Syracuse, NY – **Bachelor of Science Electrical Engineering**

Minors in Mathematics and Engineering Management