

# Hilary Mallar

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## SUMMARY

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

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## TECHNICAL SKILLS

React.js, JavaScript, HTML, CSS, Bootstrap, Java, jQuery, Node, Express, Handlebars, MySQL, Sequelize, MongoDB, Responsive Design, APIs, JSON, AJAX, Firebase, Git, Heroku, LaTeX

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## PROJECTS

**Youth Rally Website** | [github.com/hgmallar/youth-rally](https://github.com/hgmallar/youth-rally) | <https://www.youthrally.org/>

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

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

**Unpopular Baby** | [github.com/hgmallar/uncommonBaby](https://github.com/hgmallar/uncommonBaby) | <https://www.unpopularbaby.com/>

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

- Searches SQL database with SSA data of name popularity by decade.
- Coded using React.js, SQL, Sequelize, Node, and Express. Uses Bootstrap, Font Awesome and Google Fonts styling. Mobile responsive.

**Tic Tac Toe** | [github.com/hgmallar/project2](https://github.com/hgmallar/project2) | <https://infinite-taiga-34074.herokuapp.com/>

*Play tic tac toe against other players in a knockout style setting.*

- Group project with game logic and leaderboard responsibilities.
- Uses Socket.io to create multi-player gaming interactions. Uses Chart.js to create leaderboard.
- Uses MySQL database and Sequelize to store and access player scores.
- Coded using Express, Handlebars, Node, HTML, CSS, JavaScript, and jQuery. Mobile responsive.

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## EXPERIENCE

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

Assisted students in learning web development languages.

*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.

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**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