

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. Able to grasp new concepts quickly and efficiently.

TECHNICAL SKILLS

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

PROJECTS

Youth Rally Website | 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 Node, Express, React.js, HTML, CSS, and JavaScript. Uses Bootstrap, Font Awesome, and Google Fonts styling. Mobile responsive.

Unpopular Baby | 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://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.

EXPERIENCE

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

Assist students in learning web development languages.

Key Accomplishments:

- Support students in their projects and challenges.
- Provide feedback on assignments.

Math Editor – *Aztec Software* – Remote

2015 - Present

Create and edit supplemental materials for web application of preparatory materials for high school equivalency exams. Interface with software team to fix bugs. Field customer content and software questions and complaints.

Key Accomplishments:

- Communicates effectively to remote team and takes on extra work to help meet deadlines.
- Implements 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