# Matt Wilson

Junior Software Engineer
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## SKILLS

**Programming Languages**: TypeScript, JavaScript, SQL

**Technologies**: React, Node, HTML, CSS, Material UI, Express, Firebase, MySQL, MongoDB, Jest, webpack, SASS, Git

## WORK EXPERIENCE

**Freelance Software Engineer**                                                                 **Aug 2021 - Current**

- Built over 25 software applications leveraging TypeScript, React, Node, SQL, and various other web technologies.
- Consulted for and acquired 3 clients for commercial and personal web application development.
- Completed the 8-month software engineering bootcamp The Odin Project.
- Advised self-taught software developers on career transitions into the tech industry.

## TECHNICAL PROJECTS

**Cloud-Based Full-Stack Profile App (https://github.com/Mattwwilson34/profile-pilot)**        **Feb 2023 – Mar 2023**

- Developed and deployed a responsive full-stack application with third-party authentication for a 7 day deadline.
- Implemented a CI/CD pipeline run over 20x with Github Actions enforcing code style, testing, and deployment.
- Designed and built dynamic URL application logic allowing generation of unique user profile pages and sharing.
- Technologies: TypeScript, React, Firebase, Material UI, JavaScript, HTML, CSS, Jest, Git, Github

**Backtracking Algorithm Visualizer (github.com/Mattwwilson34/knights-travail)**        **Jan 2023 – Feb 2023**

- Developed a recursive backtracking algorithm using TypeScript to solve a popular chess problem "Knights Tour."
- Created a chessboard UI with React to visualize the backtracking algorithms progressive solution to the problem.
- Implemented extensive unit testing with Jest achieving > 90% test coverage ensuring code quality and reliability.
- Technologies: Recursive Algorithms, TypeScript, React, Jest, HTML, CSS, Git, Github

**Full-Stack Social Media App (github.com/Mattwwilson34/the-odin-book)**        **Nov 2022 – Jan 2023**

- Engineered a full-stack application with 5 core features including login/registration, posts, comments, likes, and friends.
- Built a RESTful API with 18 endpoints using Node / Express enabling data integration for client and database layers.
- Implemented third party authentication with Node, Express, and passportJS allowing login/registration with Google.
- Technologies: JavaScript, React, Node, MySQL, Express, HTML, CSS, webpack, Git, Github

**Full-Stack Weather Dashboard (github.com/Mattwwilson34/weather-dashboard)**        **Aug 2022 – Oct 2022**

- Built a full-stack weather dashboard with 5 days of forecasting, 8 data-types, and 8 time points per data-type.
- Developed a RESTful API with 3 endpoints leveraging dependent third party API calls creating a weather data pipeline.
- Designed a custom UI/UX graph component with React and CSS to dynamically display incoming API data to users.
- Technologies: JavaScript, React, Node.js, Express, Axios, HTML, CSS, webpack, Git, Github

## EDUCATION

**Duke University (2018 - 2021)**
Doctorate of Physical Therapy
GPA: 3.8

**Computer Science Courses:**
The Odin Project    |    CS50's intro to CS
Web Dev Bootcamp    |    SQL Bootcamp