

Tom Lipscomb

PROFESSIONAL SUMMARY

A dedicated tenacious full-stack developer who exceeds expectations by solving complex problems using creativity, ingenuity and a relentless drive for continuous learning. Is an asset to any forward-thinking team ready to innovate and grow. Works both with the front-end and back-end of projects including middleware as well to ensure projects are working seamlessly and without issues.

HIGHLIGHTS OF EXPERTISE

React, React Native, JavaScript, CSS, HTML:5, Node.js, Node Express, SQL/MySQL, C#, Ruby & Java

CERTIFICATIONS

CodeBoxx Academy Full-Stack Certification

Microsoft C# Certification

CodeBoxx Academy AI Certification (In-Progress)

PROFESSIONAL EXPERIENCE

CODEBOXX ACADEMY

Full-Stack Certification (Graduated), AI Certification (In-Progress)(St. Petersburg, FL) February 2024 - present

Setup as a real in person business simulation for incoming students, this full-stack certification covered both front-end, middleware and back-end. I am currently still coming here to work on more certifications and projects including their new AI course as well as a project I am doing on my own which includes a small language model using llama to create a HVAC app for the use of technicians in the field.

- In one case I was handed only backend code and I had to work with the APIs to create the front-end completely from scratch
- Worked with both Java and Ruby creating new APIs that worked with MongoDB to help the back-end work with the front-end to create fully functioning websites and applications
- React, React Native, JavaScript, CSS and HTML:5 are all front-end languages I worked with during this course and am currently working with most of them on new multiple projects I have going.
- Engaged in presentations by industry professionals from fields including cybersecurity, software development and startup mobile app marketing gaining valuable insights into tech

FULL-STACK COURSE:

Here is a list of issues and problems and how I solved them.

Frontend

- **Implemented user data persistence across an application:**
While creating the frontend for a Doordash-like app completely from scratch, I faced the challenge of maintaining user data throughout the application after login. This was essential for features like assigning the correct user to an order. To address this, I independently researched solutions, and I ultimately decided to implement AsyncStorage for data persistence. I utilized DBEaver to verify the data was being stored and retrieved correctly, and tested the API calls in Postman to ensure accurate integration of the login data with AsyncStorage.
- **Enhanced user experience by improving inefficient workflows:**
Tasked with creating a feature for employees to assign restaurant orders based on IDs, I identified inefficiencies in the design. Drawing from my HVAC technician experience with similar software, I realized relying on restaurant IDs alone without restaurant names was unproductive and just a bad design even if the instructions specifically said to do it. When given permission I enhanced the functionality by integrating an additional API that provided restaurant names along with their IDs. This improvement allowed employees to see the restaurant name in the selection table and confirmation screens, reducing errors and improving usability.
- **Created frontend components based on provided wireframes:**
Followed detailed wireframes in other projects (but often times not given wireframes) to build responsive

frontends using React, React Native, JavaScript, CSS, and HTML5. Leveraged the MERN stack (MongoDB, Express, React, Node.js) to integrate the frontend with the backend seamlessly, adhering to project requirements and design standards.

Middleware

- **Built a secure API for user authentication:**

Designed and implemented an API that validates login tokens via a GET function. This API ensures users are authenticated on each page by verifying credentials against a MongoDB collection. If unauthorized, users are redirected to a "Not Authorized" page and then via a button are sent back to the login screen.

- **Designed and managed MongoDB schemas for data integrity:**

Faced with the challenge of structuring and maintaining data integrity in MongoDB, I designed and implemented multiple schemas to organize and store data effectively. When unexpected project requirements arose, I tackled the problem by manually updating and adding databases as needed. By researching online resources and carefully applying best practices, I ensured the data was correctly configured and integrated into the right areas, enabling the project to function seamlessly.

Backend

- **Developed a backend CRUD proof of concept for restaurant management:**

Built a backend module within an existing website project to demonstrate CRUD operations for a restaurant database. This included APIs to list all restaurants, create new ones, update existing entries, and delete restaurants. I verified the functionality of each API using Postman and ensured smooth integration with the database.

- **Debugged and optimized MySQL queries for backend operations:**

Built a backend module within an existing website project to demonstrate CRUD operations for a restaurant database. This included APIs to list all restaurants, create new ones, update existing entries, and delete restaurants. I verified the functionality of each API using Postman and ensured smooth integration with the database.

Bay Area Heating and Cooling (Now Integrity Home Solutions)

Service/Maintenance Technician

(Tampa, FL) October 2018 – January 2024

Diagnosed, fixed, and did maintenance on commercial and/or residential HVAC systems while talking to concerned businesses and customers. Did very detailed work to keep complicated systems up and running during peak periods.

- Had the best customer service rating in the whole company of HVAC techs (CEO, managers, office and customers even sent letters to the office saying I had the best customer service)
- I maintained an extremely low (near zero) call backs for previous service calls due to attention to detail, correct diagnosis and fixes

Burgess Heating and Air

Service/Maintenance Tech (Let go, ran out of work for me) (Safety Harbor, FL) June 2018 – September 2018

Same job duties stated above for Bay Area again with really great customer service

Family Matter

(Bethlehem, PA) August 2016 – May, 2018

Taking care of dying grandfather

F.H. Furr Plumbing, HVAC and Electrical

SharePoint Consultant

May, 2014 – July, 2016

HVAC Technician I.

EDUCATION AND TRAINING

CodeBoxx Academy Full-Stack Certification Completed August 2024

CodeBoxx Academy AI Certification (In-Progress)

HVACR Associates Degree from Northern Virginia Community College | GPA 3.67 Completed July 2016

HVACR Studies Certificate from Northern Virginia Community College | GPA 3.78 Completed July 2015

HVAC Universal 608, mandatory by the United States Environmental Protection Agency Completed May 2014

Commercial Refrigeration Certificates 441 and 442 from HVACRedu.net (a four-month advanced course specializing in commercial refrigeration)

MICROSOFT CERTIFICATIONS

Microsoft C# Certification

FUN FACTS

Member of the St. Pete Running Club (Current)

Eagle Scout: Participating in Scouting for 10 years, built four benches in the town of Warrenton for Eagle project

Backpacked 525 miles from the French Spanish border to end up at the Atlantic 2017

High School Cross Country runner four years, Team won state in 2008

Ran and finished the Richmond Marathon in 2010