Jonah G. Carpenter
Oxford, MS 38655
Email - jonahgcarpenter@gmail.com

Portfolio - https://portfolio.jonahsserver.com/
Github - https://github.com/jonahgcarpenter
LinkedIn - https://www.linkedin.com/in/jonah-carpenter-aa2644264/

Professional Summary

Dedicated and resourceful Software Engineer with hands-on experience in full-stack development, backend engineering, and database management. Passionate about exploring emerging technologies and teaching myself new languages and frameworks, such as React.js, FlaskAPI, and Spring Boot, to stay ahead of industry trends and maintain a broad technical perspective.

Skilled in performance optimization, debugging, and implementing secure containerized environments using Docker on Linux systems. Thrives in collaborative and Agile environments, delivering robust and scalable software solutions that exceed user expectations. Continuously driven by curiosity and a love for problem-solving, aiming to create innovative applications that make a meaningful impact.

With over five years of hands-on experience managing two UnRaid servers, I have developed a strong foundation in server administration, including hardware configuration, network setup, and ensuring high availability. I've been responsible for configuring storage arrays, optimizing data redundancy, and implementing automated backup strategies. My experience includes managing virtual machines, Docker containers, and services to ensure smooth, reliable operation of a diverse set of applications. This experience has deepened my understanding of systems architecture and troubleshooting, allowing me to proactively identify and resolve performance bottlenecks while maintaining secure and efficient environments.

Technical Skills

Programming Languages:

Python

JavaScript

TypeScript

PHP

R

Java

C++

HTML

CSS

Golang

Lua

YAML

Web Development:

React.js

Vite.js

Angular.js

Tailwind CSS

FlaskAPI

Gunicorn

Spring Boot

Express.js

Node.js

Firebase

Databases:

SQL

MongoDB

Other Skills:

Performance Optimization

Debugging

Version Control (Github)

Linux

Containerization (Docker)

Server Administration

```
        Network Security and Engineering
        Self Hosting Applications
```

Education

Bachelor's Degree in Computer Science from the University of
Mississippi, [Oxford, MS][2022] — [Spring 2025]

Associates Degree in Computer Science from Itawamba Community College,
[Fulton, MS][2020] — [2022]

Most Notable Projects - More on Github!

[aprils-lil-pugs] - [LINK](#)

Designed and developed a dynamic web application for a pug breeding
business to showcase dog litters and available puppies. Integrated a
local RTSP/HLS server to livestream an RTSP camera feed of the puppies
when available. Implemented features for image uploads, a waitlist
management portal for prospective buyers, and real-time updates to
enhance user engagement.

Built the full-stack application using MongoDB, Express, React, and
Node.js (MERN stack) for efficient data handling and interactive user
interfaces.

Implemented responsive design principles, ensuring seamless navigation
across devices.

Utilized Docker to manage and deploy the application in a consistent
environment.

[turing-tickets] - [LINK](#)

Developed an IT ticketing web application as a senior capstone project
to streamline issue reporting and resolution within organizations.

Implemented ticket creation, tracking, and status updates, with automated email notifications to keep users informed throughout the resolution process.

Built the system using PHP, JavaScript, HTML, and CSS for an intuitive and responsive user interface.

Designed and managed a MySQL database to handle ticketing data securely and efficiently.

Conducted usability testing, improving user satisfaction and reducing ticket resolution time.

[enhance-your-life-with-living-technology] - [LINK](#)

Developed an educational website to demonstrate the benefits and implementation of smart-home technology for daily life improvements.

Built the front-end using Vite, ensuring fast builds and hot module replacement for an efficient development process.

Integrated Firebase for real-time data synchronization and secure storage of user preferences.

Focused on user-centric design, creating an accessible and informative experience for visitors.

Work Experience

Server
[Walk On's Sports Bistreaux], [Oxford, MS][2023] – [Present]

Delivered attentive and friendly service in a high-volume restaurant environment, fostering positive dining experiences and customer satisfaction.

Managed diverse responsibilities, including order-taking, payment processing, and coordinating with the kitchen for accurate and timely food delivery.

Maintained a positive and professional attitude while collaborating with team members to ensure smooth operations.

Student Worker at the IT Helpdesk
[University of Mississippi], [Oxford, MS][2022] – [2024]

Provided technical support to students, faculty, and staff, troubleshooting a variety of hardware and software issues.

Documented and resolved IT support tickets using a helpdesk ticketing system.

Educated users on best practices for system security and efficient use of technology resources, enhancing overall user productivity.

Server
[Fairpark Grill], [Tupelo, MS][2019] – [2022]

Provided prompt and courteous service in a fast-paced dining environment, ensuring high standards of customer satisfaction.

Efficiently handled order processing, payment transactions, and communication with kitchen staff to maintain seamless service flow.

Contributed to a team-oriented environment by supporting colleagues and maintaining operational efficiency during peak hours.