Christopher Bowman

Software Engineer | Located in New London, CT | 508-302-9166 | cbowman.se@gmail.com | Github | Portfolio | LinkedIn

Technical Skills

Languages & Technologies: Python | JavaScript | Java | C | C++ | PHP | SQL | WordPress | Webflow | Figma

Libraries & Frameworks: React.js | Next.js | Express.js | Django | Flask

Databases: PostgreSQL | MySQL | MongoDB **Cloud Services:** Amazon Web Services (AWS)

CAD/ FEA Softwares: ABAQUS | Altair Hyperworks | ANSYS | Fluent | SolidWorks | Blender

Professional Work Experience

Software Engineer | Propark Mobility | Contract

10/2023 - Present

- Developing custom WordPress Theme and Backend with PHP, MySQL, Apache, JavaScript, HTML and CSS.
- Using Advanced Custom Fields and WordPress Plugins to create a webpage template for Propark Mobility acquisitions.

Academic Tutor | Parliament Tutors | Contract

10/2023 - Present

- Provide tutoring to US Coast Guard Academy cadets in Statics and Mechanics of Materials.
- Provide tutoring to veterans through the US Department of Veterans Affairs in C Programming, Statics, Multivariable Calculus, and Physics 2.

Senior Software Engineer | Scott's Landscaping, Inc

2/2023 - Present

scottslandscaping.org | github.com/cbowman422/scottslandscaping

- Built a responsive web application with React.js to replace the company's outdated website.
- Improved overall accessibility (A11y) (Alt text for images, color contrast, headings and semantic HTML) across devices and increased user retention rate by 15%.
- Designed user experience and user interface (UX/UI), resulting in a 30% increase in website engagement and a 20% decrease in bounce rate.
- Managed the transfer of the domain registrar and email hosting resulting in a 60% decrease in annual hosting cost.
- Developed a responsive hamburger menu, before and after slider component and a modal popup/image slider without the use of npm library packages to improve the integrity of the website.

Software Engineer | NextGen | Contract

8/2023 - 10/2023

- Worked with a team of 6 software engineers to build the company website with Next.js, React.js and Tailwind CSS.
- Helped architect a Node/Express RESTful API using PostgreSQL as the backing data store.
- Responsible for the implementation of JSON Web Token (JWT) and Bearer Authorization to fortify website security.

DevOps Engineer | SpaceLab | Internship

6/2023 - 8/2023

spacelab.space/

- Built scalable backend environment utilizing cloud-native functionalities (AWS EC2 and AWS Fargate)
- Led the charge to design the cloud-native deployment system using AWS Fargate and Docker to achieve scalability while also balancing cost.
- Leveraged ChatGPT to help improve my knowledge in AWS, GraphQL, and Docker.

Engineer II | General Dynamics Electric Boat

8/2020 - 10/2022

- Produced scripts in Python to run ABAQUS software for design support of Virginia and Columbia class submarines.
- Conducted research, development, technical consulting, and application of state-of-the-art computational engineering analysis methods and software.

Obtained Secret Level Security Clearance at a Fortune 100 Company.

Education

University of Massachusetts, Amherst | Bachelor of Science in Mechanical Engineering | GPA 3.44

5/2020

Relevant coursework includes: Computer Science, Electrical Engineering, MATLAB Programming, Calculus 1 & 2,
Multivariable Calculus, Differential Equations, Linear Algebra, Engineering Statistics.

General Assembly | Software Engineering Immersive

2/2023

- Focused on product development fundamentals, object-oriented programming, MVC frameworks, data modeling, and team collaboration strategies.
- Mentored students during group work and provided support with debugging code.

Software Development Projects

Bowman Games 9/2023 - Present

Tech Stack: C++ | Unreal Engine 5 | Blender | Ableton Live 11

Building a video game using C++, Unreal Engine 5, Blender and Ableton Live 11.

Money Mania | github.com/cbowman422/Money-Mania-Frontend

3/2023

Tech Stack: MongoDB | Express | React.js | Node.js | HTML | CSS

- Developed a MERN application geared towards student finance education, which placed 1st place in the General Assembly 2023 Gamifying Hackathon.
- Led a team of 3 UX/UI designers and 4 software engineers to accomplish MVP in a 4-day sprint.
- o Responsible for the Node.js, Express, and MongoDB RESTful back-end server and rebuilding 3 React.js front-end pages.

Messenger | github.com/cbowman422/messenger

2/2023

Tech Stack: Socket.IO | MongoDB | Express | React.js | Node.js | HTML | CSS

- Project Lead for a dynamic messaging MERN application employing Socket.IO for real-time chat room messaging.
- Responsible for integrating a new library, Socket.IO, into a MERN application with JWT and Bearer Authorization in order to accomplish MVP in a 1-week sprint.
- Implemented the Fetch method for JWT data exchange, a stretch goal includes adding Auth0 to secure and control access to that data.